## PRODUCT SELECTOR GUIDE

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<tr>
<td><strong>FUNCTIONAL ADDITIVES</strong></td>
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| A6220 | A-284   | 93158-39-5 (Y)         | Dibutyl-1,4 Cyclohexanedicarboxylate | ![Structure](image) | • Plasticizer  
• Non-phthalate  
• Very low viscosity | Colorless Liquid | 30 | • For use as a plasticizer in applications where human contact is expected |
| R1231 | A-304   | 70293-55-9 (N)         | 4-Metacryloxyethyl Trimellite Anhydride | ![Structure](image) | • Adhesion Promoter  
• Versatile adhesion promoter | White Powder/Crystals | N/A | • Adhesion promoter |
| R1251 | A-675-100% | 148019-46-9 (Y)       | PMGDM       | ![Structure](image) | • Versatile adhesion promoter | Light Yellow | Very viscous | • Adhesion promoter |
| R1217-M | A-478-M | Not assigned (N)      | Pyromellitic Dianhydride Dimethacrylate – Mixture of Isomers | ![Structure](image) | • Versatile adhesion promoter | Fine White Powder | N/A | • Adhesion promoter |
| A6165 | A-6165  | 1151654-51-1 (Y)      | Soluble additive that on addition to a conductive adhesive formulation can significantly decrease the volume resistivity of the cured material | ![Structure](image) | • Improves electrical conductivity in metal filled conductive paste formulations  
• Soluble in most resin systems  
• May improve thermal conductivity in some formulations | Dark Brown Viscous Liquid | ** | • Increases electrical conductivity of resin system |

Designer Molecules, Inc. 10080 Willow Creek Rd., San Diego, CA 92131  
www.designermoleculesinc.com  
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| A6225| A-6225  | No (N)                  | Antiblee Additive – Silicone Mercapto Propionate (SMP) | Unavailable | • Excellent bleed control  
• Co-curable in most systems  
• Minimal adhesion degradation  
• Non-halogenated – a ‘green’ alternative to conventional anti-bleed and mold release materials | Colorless Liquid | 50 | • For use as an additive to reduce resin bleed out specifically on metal surfaces |

### FUNCTIONAL ADDITIVES continued….

#### IMIDE-EXTENDED BISMALEIMIDES

| R1155 | BMI-689 | 682800-79-9 (Y-LVE) | A unique very low viscosity BMI resin | contains unsaturation | • Toughener  
• Hydrophobic  
• High adhesion *  
• Superior thermal stability | Yellow to Amber Liquid | 1,500 ± 500 | • Base resin or additive in thermostet formulations designed for high temperature resistance |
|-------|---------|---------------------|----------------------------------|-----------------|----------|------------|------------------|-------------------------|
| R1232 | BMI-1400| 122469-98-8 (Y)    | An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates | Where n = 1 to 10 | • Specialty formulated lower viscosity version of BMI-1700 | Amber | 6,500 ± 1,000 (60°C) | • Film adhesives  
• Pre-applied adhesives  
• Adhesion to metal |
| R1203 | BMI-1500| 1290041-56-3 (Y)   | An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates | Where n = 1 to 10 | • Soluble in many reactive diluents  
• Hydrophobic  
• Superior thermal stability  
• High adhesion to various substrates | Amber  
Viscous Liquid | 20,000 ± 10,000 (60°C) | • Film adhesives  
• Pre-applied adhesives  
• Adhesion to metal |
IMIDE-EXTENDED BISMAL EIMIDES continued....

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</table>
| R1191 | BMI-1700| 1224691-98-8 (Y)        | An amorphous, low molecular weight bismaleimide oligomer that exhibits good adhesion to a variety of substrates | ![Structure](image) Where n = 1 to 10                                                   | • Soluble in many reactive diluents  
  • Hydrophobic  
  • Superior thermal stability  
  • High adhesion to various substrates | Amber               | 30,000 ± 10,000 (60°C) | • Film adhesives  
  • Pre-applied adhesives  
  • Adhesion to metal |
| R1316 | BMI-2500| (Y)                     | Designed to extend the range of applications suitable for use with Designer Molecules, Inc. Imide-Extended Bismaleimide Oligomers to those in need of higher Tg and modulus. | N/A                                                                                     | • Toughener  
  • Hydrophobic  
  • High adhesion *  
  • Superior thermal stability  
  • Low pH hydrolytic resistance  
  • Reduce resin bleed out                       | Light Yellow Glassy Powder                      | N/A                          | • Additive to increase flexibility, hydrophobicity, anisotropy  
  • Base resin – produces films that are tough, flexible, and have good peel strength |
| R1090 | BMI-3000 Gel | 921213-77-6 (Y) | Bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides. | ![Structure](image) Where n = 1 to 10                                                   | • Toughener  
  • Hydrophobic  
  • High adhesion *  
  • Superior thermal stability | Red-Amber Gel | N/A                          | • Film adhesives  
  • Pre-applied adhesives  
  • Adhesion to metal |
| R1225 | BMI-3000 CG | 921213-77-6 (Y) | Low cost bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides. | ![Structure](image) Where n = 1 to 10                                                   | • Low cost  
  • Toughener  
  • Hydrophobic  
  • High adhesion *  
  • Superior thermal stability | Light Yellow Powder | N/A                          | • Film adhesives  
  • Pre-applied adhesives  
  • Adhesion to metal |
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<tr>
<td>R1130</td>
<td>BMI-3000 Powder</td>
<td>921213-77-6 (Y)</td>
<td>Bismaleimide oligomer that exhibits excellent flexibility and, on cure, forms very tough hydrophobic polyimides</td>
<td><img src="image1" alt="Structure" /></td>
<td>Toughener • Hydrophobic • High adhesion * • Superior thermal stability</td>
<td>Light Yellow Powder</td>
<td>N/A</td>
<td>Film adhesives • Pre-applied adhesives • Adhesion to metal</td>
</tr>
<tr>
<td>R1171-P</td>
<td>BMI-5000 Powder</td>
<td>921213-77-6 (Y)</td>
<td>Imide-extended bismaleimide oligomer that exhibits excellent toughness in the cured state with intermediate cross-link density.</td>
<td><img src="image2" alt="Structure" /></td>
<td>Low cross-link density • Non-tacky • Film-forming • Maleimide functional oligomer • Cures to a tough thermoset • Additive to enhance toughness in thermoset compositions</td>
<td>Light Yellow Powder</td>
<td>N/A</td>
<td>Film adhesives • Thermally resistant adhesives</td>
</tr>
<tr>
<td>R1171-T</td>
<td>BMI-5000 Toluene</td>
<td>921213-77-6 (Y)</td>
<td>Imide-extended bismaleimide oligomer that exhibits excellent toughness in the cured state with intermediate cross-link density.</td>
<td><img src="image3" alt="Structure" /></td>
<td>Low cross-link density • Non-tacky • Film-forming • Maleimide functional oligomer • Cures to a tough thermoset • Additive to enhance toughness in thermoset compositions</td>
<td>Dark Brown Liquid</td>
<td>1,000</td>
<td>Film adhesives • Thermally resistant adhesives</td>
</tr>
<tr>
<td>R1334</td>
<td>BMI-6000</td>
<td>(Y)</td>
<td>A curable, low DK and Df alternative to replace both the Kapton and adhesive layers in the manufacture of FCCL materials. It can be processed in a resin system as a solid or dissolved in a solvent.</td>
<td>N/A</td>
<td>Toughener • Hydrophobic • Super thermal stability • Good dielectric properties • Excellent workability • High Tg • Low CTE</td>
<td>Light yellow powder</td>
<td>N/A</td>
<td>Adhesive layer when laminating FCCL applications • Adhesion promoter</td>
</tr>
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## CYCLOSILOXANE EPOXY HYBRIDS

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</table>
| R1163| CS-697  | 257284-60-9 (Y)         | A polyglycidyl ether cyclosiloxane monomer NOT AVAILABLE IN JAPAN | ![Structure](structure1.png) | • Multifunctional  
• UV curable  
• Low chloride  
• Low viscosity  
• Colorless | Colorless Liquid | 200 | • UV curable additive |
| R1116| CS-783  | 921214-21-3 (Y)         | Methacrylate epoxy functional hybrid cyclosiloxane monomer | ![Structure](structure2.png) | • Dual cure mechanism  
• Multifunctional  
• UV Curable  
• Low chloride  
• Low viscosity | Yellow Liquid | 250 | • Hybrid cures  
• UV cures  
• B-stageable adhesives |
# PRODUCT SELECTOR GUIDE

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</table>
| R1146 | EC-234  | 926305-16-0 (Y-LVE)     | Phenyl ester epoxy curative hybrid | ![Structure](image) | • Hybrid cure  
• Low viscosity | Light Yellow Liquid | 40 | • UV adhesives  
• B-stageable adhesives |
| R1170 | EC-298  | 1044794-71-7 (Y-LVE)    | Difunctional phenyl ester epoxy curative | ![Structure](image) | • Stable  
• Low viscosity  
• Does not impede free radical cure | Light Yellow Liquid | 500 | • Thermoset adhesives  
• Curative for epoxy/(meth) acrylate hybrids  
• Hybrid epoxy/free radical thermosets |
| R1227 | EC-312  | 10192-62-8 (Y)          | Difunctional phenyl ester epoxy curative | ![Structure](image) | • Low cost  
• Low melting point  
• Thermal stability  
• Hydrophobic  
• Does not impede free radical cure | Fine White Powder | N/A | • Film adhesives  
• Pre-applied adhesives |
| R1147 | EC-326  | N/A (Y-LVE)             | Bisphenol A based acetate/proprionate epoxy curative | ![Structure](image) | • Hydrolytically resistant  
• Low melting point  
• Thermal stability  
• Hydrophobic  
• Toughener  
• Does not impede free radical cure | White-Yellow Solid | 2,000 *** | • Film adhesives  
• Pre-applied adhesives |
| R1148 | EC-392  | 107466-61-9 (Y)         | Phenyl ester epoxy curative hybrid of diallyl bisphenol A | ![Structure](image) | • Dual cure mechanism  
• High cross-link density  
• Multifunctional  
• Thermal stability | Amber Liquid | 2,500 | • B-stageable adhesives  
• Epoxy and BMI co-curative |
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| R1165| EC-861  | 1071523-12-0 (Y)        | Phenyl acetate epoxy curative | ![Structure](image) | • Low modulus  
• Toughener  
• Hydrolytically resistant thermosets  
• Hydrophobic  
• Thermal stability  
• Does not impede free radical cure | Amber/Yellow Liquid | 2,500 | Low stress epoxy thermosets |
| R1149| EC-1074 | 926657-64-9 (Y)         | A tetra-phenol epoxy curative derived from dimerdil | ![Structure](image) | • Low modulus  
• Toughener  
• Hydrolytically resistant thermosets  
• Hydrophobic  
• Thermal stability | Amber Glassy Solid | N/A | Film Adhesives  
Pre-applied adhesive compositions |

** PHENYL ESTER EPOXY CURATIVES continued….**

** LATENT EPOXY CATALYSTS **

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</table>
| R1198| ECAT Series  | ECAT-243  | 1253404-90-6 (Y)       | Imidazole Epoxy Catalysts  | ![Structure](image) | • Good solubility in most epoxy monomers  
• Excellent latency characteristics  
• Can be used as a catalyst or curative  
• Turnable cures  
• Promotes clean, rapid monomodal cures | Refer to TDS | N/A | Electronic mold compounds  
Underfills |
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</table>
| R1173 | MM-204 | 33791-58-1 (Y) | Monofunctional acrylate monomer | ![Structure](image) | • Low viscosity  
• High glass transition temperature  
• Low cure shrinkage  
• Hydrolytically resistant  
• Diluent for thermoset resins  
• High Tg | Light Tan Liquid | 50 | • UV or peroxide cured resins, coatings, or adhesives |
| R1175 | MM-211 | 55750-53-3 (Y) | An intermediate chain length, maleimide terminated carboxylic acid | ![Structure](image) | • Flexible aliphatic backbone  
• Maleimide and carboxylic acid functional groups  
• Adhesion promoter | White/Light Yellow Powder | N/A | • Intermediate for ester and amide linked maleimide monomers |
| R1139 | MM-220 | 93962-84-6 (Y-LVE) | Tricyclodecane Acrylate | ![Structure](image) | • Low weight loss on cure  
• Helps reduce cure shrinkage  
• Low viscosity | Light Yellow Liquid | < 100 | • UV cure coatings |
| R1121 | MM-281 | 57079-01-3 (Y-LVE) | Maleimidoundecanoic Acid (MUDA) | ![Structure](image) | • Flexible aliphatic backbone  
• Maleimide and carboxylic acid functional groups  
• Adhesion promoter | White to Off-white Powder | N/A | • Intermediate for ester and amide linked maleimide monomers |
| R1134 | MM-290 | 903876-45-9 (Y) | Isobornyl Cyclohexyl Acrylate | ![Structure](image) | • Lower weight loss on cure than Isobornyl Acrylate (IBOA)  
• Mild, pleasant odor  
• Hydrolytic resistance | Light Tan Liquid | 250 | • UV or peroxide cured resins, coatings, or adhesives |
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| R1197 | MM-304 | N/A (N) | Isobornyl Cyclohexyl Methacrylate | ![Structure](image) | • Very low color  
• Lower weight loss on cure than Isobornyl Methacrylate (IBOMA)  
• Mild, pleasant odor  
• Hydrolytic resistance | Colorless Liquid | 80 | • Dental  
• Reactive diluent |
| R1096 | PEAM-645 | 921213-39-0 (Y) | Polyester acrylate/methacrylate | ![Structure](image) Where n = 1 to 5 | • High Tg  
• High modulus  
• Low CTE  
• High adhesion I  
• Thermal stability | Amber Liquid | 6,500 | • Low CTE thermosets |
| R1111 | PEAM-1044 | 921214-61-1 (Y) | Polyester acrylate/methacrylate | ![Structure](image) Where n = 1 to 5 | • Low warpage  
• Hydrophobic  
• High adhesion *  
• Thermal stability | Amber Liquid (40°C) | | • Low stress coatings |
| R1144 | PEAM-1769 | 921214-61-1 (Y) | Polyester acrylate/methacrylate | ![Structure](image) Where n = 1 to 5 | • Ultra-low modulus  
• Hydrophobic  
• High adhesion *  
• High thermal stability  
• Adhesion to metals  
• Flexibilizer | Amber Liquid | 4,500 | • Low stress coatings |

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| R1188 | PEM-665 | N/A (N) | Methacrylate terminated polyester oligomer | ![Structure](image1.png) | - Low color  
- Low cure shrinkage  
- Thermal stability  
- Tough | Light Yellow Tint Liquid | 6,500 (50°C) | Dental |
| R1157 | PEM-1066 | 951244-55-6 (Y-LVE) | Polyester methacrylate | ![Structure](image2.png) | - Low modulus  
- Hydrophobic  
- Excellent hydrolytic resistance  
- High adhesion *  
- Adhesion to metals  
- Ultra-low warpage  
- Flexibilizer | Light Yellow Liquid | 20,000 | Dental  
Moisture resistant coatings |
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| R1216 | U-347   | 1371570-15-8 (N)        | Phenyl glycerol urethane dimethacrylate (PGDMA) | ![Structure](image) | Low cure shrinkage  
Colorless  
Good refractive index  
Not bisphenol A based | Clear Colorless Liquid | 9,500 | Dental  
Moisture resistant coatings |
| R1230 | U-483   | Not assigned (N)        | IPDI urethane dimethacrylate | ![Structure](image) | Low viscosity  
Low cure shrinkage  
Colorless  
Not bisphenol A based | Clear Colorless Liquid | 5,000 | Dental  
Moisture resistant coatings  
Light cure coatings |
| R1095 | U-793   | 869488-57-3 902742-80-9 (N) 920758-57-3 (Y) | Urethane resin functionalized with a methacrylate and an epoxy | ![Structure](image) | Low color  
Low cure shrinkage  
Thermal stability  
Tough | Light Yellow Tint Liquid (50°C) | 6,500 | Dental |
| R1102 | U-835   | 869488-57-3 1003612-76-7 (Y-LVE) | Urethane resin functionalized with acrylate and methacrylate end groups | ![Structure](image) | Low modulus  
Hydrophobic  
Excellent hydrolytic resistance  
High adhesion  
Adhesion to metals  
Flexibilizer | Light Yellow Liquid | 20,000 | Dental  
Moisture resistant coatings |
| R1238 | U-847   | 86499-57-3 (N)          | DDI urethane dimethacrylate monomer | ![Structure](image) | Low modulus  
Low color  
Low cure shrinkage  
Hydrophobic  
Flexibilizer | Light Yellow Liquid | 2,500 | Dental  
Moisture resistant coatings |
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<tr>
<td>R1228</td>
<td>U-471</td>
<td>72869-86-4 (Y)</td>
<td>TMDI urethane dimethacrylate monomer</td>
<td><img src="image" alt="Structure" /></td>
<td>Low color, Low cure shrinkage</td>
<td>Slight Yellow Liquid</td>
<td>8,000</td>
<td>Dental</td>
</tr>
<tr>
<td>R1266</td>
<td>U-443</td>
<td>TBD (N)</td>
<td>TMDI urethane diacrylate monomer</td>
<td><img src="image" alt="Structure" /></td>
<td>Excellent Curing Properties</td>
<td>Clear, Colorless, Oil</td>
<td>5,500</td>
<td>Light-cured coating resins</td>
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### FORMULATED PRODUCTS

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<tr>
<td>R1267</td>
<td>DMI-2550</td>
<td>Mixture</td>
<td>Mixture</td>
<td>Low modulus, Hydrophobic, Excellent hydrolytic resistance, Low stress, Adhesion to metals, Flexibilizer</td>
<td>Yellow to Dark Amber Liquid</td>
<td>700 ± 100</td>
<td>Die top coating applications</td>
</tr>
<tr>
<td>R1303</td>
<td>DMI-3006</td>
<td>Mixture</td>
<td>Modified polyimide based negative type photoresist</td>
<td>Low modulus, Very high electrical reliability, UV cured-low thermal requirements, Low cure shrinkage, High heat resistance, Good electrical properties</td>
<td>Amber liquid</td>
<td>250</td>
<td>Wafer buffer coating</td>
</tr>
</tbody>
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* Various substrates
** Many of the structures are an idealized representation of a statistical distribution
*** Supercooled
**** Storage at < 25°C will result in precipitation of some solids. The fully liquid state can be regenerated by warming to 40°C until all solids dissolve

LVE Material manufactured under Low Volume Exemption (LVE) in compliance with Section 5(h)(4) of the Toxic Substances Control Act (TSCA), 15 U.S.C.

TO PLACE AN ORDER, REQUEST SAMPLES, OR TO SPEAK WITH US ABOUT DEVELOPING A PRODUCT FOR YOUR CHEMICAL NEEDS, CONTACT US AT 858-348-1122.