

## Raschig Group 6502 DAIP Diallyl Phthalate (DAP), Cast, Mineral Filler

Category : Polymer , Thermoset , Diallyl Phthalate (DAP) , Diallyl Phthalate (DAP) Molding Compound, Short Glass Fiber Filled

### Material Notes:

Glass-fiber reinforced diallyl isophthalate molding compound. Good mechanical strength together with retention of high electrical isolation properties under hot humid conditions, exceptional dimensional stability even under severe environmental conditions. This product meets the allowed upper limits for heavy metals and PCAs and also conforms to the requirements of the EU directives 2002/95 (RoHS), 2002/96 (WEEE) and 2006/122 (PFOS) Processing: Injection and transfer molding Applications: Connectors, bobbins, potentiometers, switches Information provided by Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-6502-DAIP-Diallyl-Phthalate-DAP-Cast-Mineral-Filler.php](http://www.lookpolymers.com/polymer_Raschig-Group-6502-DAIP-Diallyl-Phthalate-DAP-Cast-Mineral-Filler.php)

| Physical Properties         | Metric                                                | English                                               | Comments            |
|-----------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------|
| Specific Gravity            | 1.80 - 2.00 g/cc                                      | 1.80 - 2.00 g/cc                                      | ISO 1183            |
| Apparent Bulk Density       | 0.700 - 0.850 g/cc                                    | 0.0253 - 0.0307 lb/in <sup>3</sup>                    | ISO 60              |
| Water Absorption            | <= 0.200 %<br>@Temperature 23.0 °C,<br>Time 86400 sec | <= 0.200 %<br>@Temperature 73.4 °F,<br>Time 24.0 hour | ISO 62              |
| Linear Mold Shrinkage, Flow | 0.00200 - 0.00450 cm/cm                               | 0.00200 - 0.00450 in/in                               | Injection; ISO 2577 |

| Mechanical Properties   | Metric                          | English                           | Comments               |
|-------------------------|---------------------------------|-----------------------------------|------------------------|
| Tensile Strength        | 50.0 - 70.0 MPa                 | 7250 - 10200 psi                  | Injection; ISO 527     |
| Modulus of Elasticity   | 14.0 - 17.0 GPa                 | 2030 - 2470 ksi                   | Injection; ISO 527     |
| Flexural Strength       | 100 - 140 MPa                   | 14500 - 20300 psi                 | Injection; ISO 178     |
| Flexural Modulus        | 12.0 - 15.0 GPa                 | 1740 - 2180 ksi                   | Injection; ISO 178     |
| Compressive Strength    | 150 - 200 MPa                   | 21800 - 29000 psi                 | ISO 604                |
| Charpy Impact Unnotched | 0.500 - 0.600 J/cm <sup>2</sup> | 2.38 - 2.86 ft-lb/in <sup>2</sup> | Injection; ISO 179/1eU |
| Charpy Impact, Notched  | 0.300 - 0.400 J/cm <sup>2</sup> | 1.43 - 1.90 ft-lb/in <sup>2</sup> | Injection; ISO 179/1eA |

| Thermal Properties            | Metric                                               | English                                               | Comments    |
|-------------------------------|------------------------------------------------------|-------------------------------------------------------|-------------|
| CTE, linear, Parallel to Flow | 50.0 - 60.0 µm/m-°C<br>@Temperature 50.0 -<br>100 °C | 27.8 - 33.3 µin/in-°F<br>@Temperature 122 -<br>212 °F | ISO 11359-2 |
| Thermal Conductivity          | 0.400 - 0.600 W/m-K                                  | 2.78 - 4.16 BTU-in/hr-<br>ft <sup>2</sup> -°F         | ASTM E1461  |

| Thermal Properties                          | Metric                                                 | English                                              | Comments                 |
|---------------------------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------------|
| Deflection Temperature at 8.0 MPa (264 psi) | >= 180 °C                                              | >= 356 °F                                            | ISO 75-C                 |
| Shrinkage                                   | <= 0.0500 %<br>@Temperature 110 °C,<br>Time 605000 sec | <= 0.0500 %<br>@Temperature 230 °F,<br>Time 168 hour | Post shrinkage; ISO 2577 |

| Electrical Properties      | Metric                                                    | English                                                 | Comments    |
|----------------------------|-----------------------------------------------------------|---------------------------------------------------------|-------------|
| Volume Resistivity         | 1.00e+14 - 1.00e+15 ohm-cm                                | 1.00e+14 - 1.00e+15 ohm-cm                              | IEC 60093   |
| Surface Resistance         | 1.00e+14 - 1.00e+15 ohm                                   | 1.00e+14 - 1.00e+15 ohm                                 | IEC 60093   |
| Dielectric Constant        | 4.00 - 5.00<br>@Frequency 100 Hz                          | 4.00 - 5.00<br>@Frequency 100 Hz                        | IEC 60250   |
| Dielectric Strength        | 4.00 - 5.00<br>@Frequency 1.00e+6 Hz                      | 4.00 - 5.00<br>@Frequency 1.00e+6 Hz                    | IEC 60250   |
| Dissipation Factor         | 15.0 - 20.0 kV/mm<br>0.0100 - 0.0300<br>@Frequency 100 Hz | 381 - 508 kV/in<br>0.0100 - 0.0300<br>@Frequency 100 Hz | IEC 60243-1 |
| Arc Resistance             | 0.0100 - 0.0300<br>@Frequency 1.00e+6 Hz                  | 0.0100 - 0.0300<br>@Frequency 1.00e+6 Hz                | IEC 60250   |
| Comparative Tracking Index | 180 - 240 sec                                             | 180 - 240 sec                                           | ASTM D495   |
|                            | >= 550 V                                                  | >= 550 V                                                | IEC 60112   |

| Processing Properties | Metric                                    | English                                   | Comments |
|-----------------------|-------------------------------------------|-------------------------------------------|----------|
| Shelf Life            | 6.00 Month<br>@Temperature 15.0 - 25.0 °C | 6.00 Month<br>@Temperature 59.0 - 77.0 °F |          |

| Descriptive Properties      | Value  | Comments            |
|-----------------------------|--------|---------------------|
| Glow wire flammability test | 850/1  | IEC 60695 2-12      |
| Glow wire ignitability test | 875/1  | IEC 60695 2-13      |
| Water Absorption            | <15 mg | 24 hr, 23°C; ISO 62 |

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