

## Raschig Group 2567 AMC

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS

### Material Notes:

Glass fiber-reinforced and inorganically filled polyester molding compound (UP) in various colors. Outstanding mechanical strength similar to BMC/SMC, very good electrical isolation properties and dimensional stability, excellent processability. 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, Transfer and Compression molding. Applications: Connectors, Bobbins, Housings and Mounting plates

Information provided by the Raschig Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Raschig-Group-2567-AMC.php](http://www.lookpolymers.com/polymer_Raschig-Group-2567-AMC.php)

| Physical Properties   | Metric                                               | English                                              | Comments                            |
|-----------------------|------------------------------------------------------|------------------------------------------------------|-------------------------------------|
| Specific Gravity      | 2.00 - 2.20 g/cc                                     | 2.00 - 2.20 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      | <= 0.30 %<br>@Temperature 23.0 °C,<br>Time 86400 sec | <= 0.30 %<br>@Temperature 73.4 °F,<br>Time 24.0 hour | ISO 62                              |
| Linear Mold Shrinkage | 0.0015 - 0.0045 cm/cm                                | 0.0015 - 0.0045 in/in                                | Injection and Compression; ISO 2577 |

| Mechanical Properties   | Metric                                                 | English                                                   | Comments                           |
|-------------------------|--------------------------------------------------------|-----------------------------------------------------------|------------------------------------|
| Tensile Strength, Yield | 35.0 - 60.0 MPa                                        | 5080 - 8700 psi                                           | Compression; ISO 527               |
|                         | 60.0 - 70.0 MPa                                        | 8700 - 10200 psi                                          | Injection; ISO 527                 |
| Modulus of Elasticity   | 6.00 - 9.00 GPa                                        | 870 - 1310 ksi                                            | Compression; ISO 527               |
|                         | 13.0 - 15.0 GPa                                        | 1890 - 2180 ksi                                           | Injection; ISO 527                 |
| Flexural Strength       | 80.0 - 100 MPa                                         | 11600 - 14500 psi                                         | Compression; ISO 178               |
|                         | 120 - 140 MPa                                          | 17400 - 20300 psi                                         | Injection; ISO 178                 |
| Flexural Modulus        | 8.00 - 12.0 GPa                                        | 1160 - 1740 ksi                                           | Injection and Compression; ISO 178 |
| Compressive Strength    | 120 - 170 MPa                                          | 17400 - 24700 psi                                         | Injection; ISO 604                 |
| Charpy Impact Unnotched | 0.500 - 1.00 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 2.38 - 4.76 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | Compression; ISO 179/1eA           |
|                         | 0.900 - 1.40 J/cm <sup>2</sup><br>@Temperature 23.0 °C | 4.28 - 6.66 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F | Injection; ISO 179/ 1eU            |
|                         | 0.250 - 0.350 J/cm <sup>2</sup>                        | 1.19 - 1.67 ft-lb/in <sup>2</sup>                         |                                    |

| Charpy Impact, Notched<br>Mechanical Properties | Metric<br>@ Temperature 23.0 °C | English<br>@ Temperature 73.4 °F | Comments<br>Compression; ISO 179/1eU |
|-------------------------------------------------|---------------------------------|----------------------------------|--------------------------------------|
|                                                 | 0.350 - 0.500 J/cm²             | 1.67 - 2.38 ft-lb/in²            | Injection; ISO 179/ 1eA              |
|                                                 | @Temperature 23.0 °C            | @Temperature 73.4 °F             |                                      |

| Thermal Properties                          | Metric                                             | English                                            | Comments                 |
|---------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------------------------|
| CTE, linear                                 | 10.0 - 20.0 µm/m-°C<br>@Temperature 50.0 - 100 °C  | 5.56 - 11.1 µin/in-°F<br>@Temperature 122 - 212 °F | ISO 11359-2              |
| Thermal Conductivity                        | 0.900 - 1.10 W/m-K                                 | 6.25 - 7.63 BTU-in/hr-ft²-°F                       | ASTM E1461               |
| Deflection Temperature at 1.8 MPa (264 psi) | >= 200 °C                                          | >= 392 °F                                          | Injection; ISO 75-A      |
| Deflection Temperature at 8.0 MPa           | 100 - 120 °C                                       | 212 - 248 °F                                       | Injection; ISO 75-C      |
| Flammability, UL94                          | V-1<br>@Thickness 0.600 mm                         | V-1<br>@Thickness 0.0236 in                        |                          |
|                                             | V-0<br>@Thickness 3.00 mm                          | V-0<br>@Thickness 0.118 in                         |                          |
| Shrinkage                                   | <= 0.050 %<br>@Temperature 110 °C, Time 605000 sec | <= 0.050 %<br>@Temperature 230 °F, 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+13 - 1.00e+14 ohm            | 1.00e+13 - 1.00e+14 ohm            | IEC 60093   |
| Dielectric Constant   | 4.0 - 5.0<br>@Frequency 1.00e+6 Hz | 4.0 - 5.0<br>@Frequency 1.00e+6 Hz | IEC 60250   |
|                       | 5.0 - 6.0<br>@Frequency 100 Hz     | 5.0 - 6.0<br>@Frequency 100 Hz     | IEC 60250   |
| Dielectric Strength   | 25.0 - 35.0 kV/mm                  | 635 - 889 kV/in                    | IEC 60243-1 |
| Dissipation Factor    | 0.010 - 0.030<br>@Frequency 100 Hz | 0.010 - 0.030<br>@Frequency 100 Hz | IEC 60250   |
|                       | 0.010 - 0.030                      | 0.010 - 0.030                      |             |

| Electrical Properties      | Metric                   | English                  | Comments       |
|----------------------------|--------------------------|--------------------------|----------------|
|                            | @Frequency 1.00e+6<br>Hz | @Frequency 1.00e+6<br>Hz | IEC 60250      |
| Comparative Tracking Index | 600 V                    | 600 V                    | CTI; IEC 60112 |

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

| Descriptive Properties      | Value   | Comments           |
|-----------------------------|---------|--------------------|
| Arc Resistance              | 4 Stufe | ASTM D495          |
| Glow wire flammability test | 960/1   | IEC 60695 2-12     |
| Glow wire ignitability test | 930/1   | IEC 60695 2-13     |
| Water Absorption            | <20 mg  | ISO 62; 24h / 23°C |

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