

## Plenco 7021 Phenolic, Granular, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

### Material Notes:

PLENCO 07021 is a renumber of Plaslok 7021 which is the replacement material for the former Union Carbide BMRS-7021. It is a two-stage, impact grade phenolic molding compound suitable for compression, transfer or injection molding of switchgear parts, or where mechanical assembly requires better impact strength. PLENCO 07021 is UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7021-Phenolic-Granular-Injection-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7021-Phenolic-Granular-Injection-Molded.php)

| Physical Properties   | Metric       | English                   | Comments   |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density          | 0.460 g/cc   | 0.0166 lb/in <sup>3</sup> | ASTM D1895 |
| Density               | 1.38 g/cc    | 0.0499 lb/in <sup>3</sup> | ASTM D792  |
| Water Absorption      | 0.50 %       | 0.50 %                    | ASTM D570  |
| Linear Mold Shrinkage | 0.0112 cm/cm | 0.0112 in/in              | ASTM D955  |

| Mechanical Properties      | Metric                  | English                     | Comments                     |
|----------------------------|-------------------------|-----------------------------|------------------------------|
| Hardness, Rockwell E       | 86                      | 86                          | ASTM D785                    |
| Tensile Strength, Ultimate | 57.0 MPa                | 8270 psi                    | ASTM D638                    |
| Elongation at Break        | 0.84 %                  | 0.84 %                      | ASTM D638                    |
| Tensile Modulus            | 8.50 GPa                | 1230 ksi                    | ASTM D638                    |
| Flexural Strength          | 72.0 MPa                | 10400 psi                   | ASTM D790                    |
| Flexural Modulus           | 6.70 GPa                | 972 ksi                     | ASTM D790                    |
| Compressive Strength       | 216 MPa                 | 31300 psi                   | ASTM D695                    |
| Izod Impact, Notched       | 0.251 J/cm              | 0.470 ft-lb/in              | ASTM D256                    |
| Charpy Impact, Notched     | 0.197 J/cm <sup>2</sup> | 0.938 ft-lb/in <sup>2</sup> | ASTM D256                    |
| Impact                     | 132                     | 132                         | J/m Drop Ball Impact; PLENCO |

| Thermal Properties                          | Metric | English | Comments                    |
|---|--------|---------|-----------------------------|
| Maximum Service Temperature, Air            | 192 °C | 378 °F  | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 153 °C | 307 °F  | ASTM D648                   |
| Shrinkage                                   | 0.39 % | 0.39 %  | 72 hr, 120°C; ASTM D1299    |

| Electrical Properties      | Metric          | English         | Comments              |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity         | 1.70e+14 ohm-cm | 1.70e+14 ohm-cm | ASTM D247             |
| Dielectric Constant        | 4.5             | 4.5             | ASTM D150             |
| Dielectric Strength        | 10.9 kV/mm      | 277 kV/in       | Short Time; ASTM D149 |
| Dissipation Factor         | 0.048           | 0.048           | ASTM D150             |
| Arc Resistance             | 77 sec          | 77 sec          | ASTM D495             |
| Comparative Tracking Index | 175 V           | 175 V           | ASTM D3638            |

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