

## Plaslok 307 Black Impact Grade Mineral/Flock Filled Phenolic Molding Compound (discontinued \*\*)

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

### Material Notes:

Plaslok Corporation was purchased by Plastics Engineering Company (maker of Plenco brand materials) in March 2000. The Plaslok name is no longer in use. Plaslok 307 is a two-stage, mineral and flock-filled phenolic molding compound designed for the automotive industry for use in brake system components. It is characterized by good molding latitude in both compression and injection molding. Data provided by Plaslok Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plaslok-307-Black-Impact-Grade-MineralFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plaslok-307-Black-Impact-Grade-MineralFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php)

| Physical Properties   | Metric       | English                   | Comments               |
|-----------------------|--------------|---------------------------|------------------------|
| Density               | 1.40 g/cc    | 0.0506 lb/in <sup>3</sup> | ASTM D792              |
| Apparent Bulk Density | 0.550 g/cc   | 0.0199 lb/in <sup>3</sup> | ASTM D1895             |
| Water Absorption      | 0.35 %       | 0.35 %                    | ASTM D570              |
| Linear Mold Shrinkage | 0.0060 cm/cm | 0.0060 in/in              | Compression; ASTM D955 |

| Mechanical Properties      | Metric     | English        | Comments  |
|----------------------------|------------|----------------|-----------|
| Hardness, Rockwell E       | 85         | 85             | ASTM D785 |
| Tensile Strength, Ultimate | 59.0 MPa   | 8560 psi       | ASTM D638 |
| Flexural Yield Strength    | 83.0 MPa   | 12000 psi      | ASTM D790 |
| Flexural Modulus           | 7.00 GPa   | 1020 ksi       | ASTM D790 |
| Compressive Yield Strength | 234 MPa    | 33900 psi      | ASTM D695 |
| Izod Impact, Notched       | 0.270 J/cm | 0.506 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 185 °C | 365 °F  | ASTM D648 |

| Electrical Properties  | Metric          | English         | Comments  |
|------------------------|-----------------|-----------------|-----------|
| Electrical Resistivity | 2.30e+11 ohm-cm | 2.30e+11 ohm-cm | ASTM D257 |
| Dielectric Strength    | 11.4 kV/mm      | 290 kV/in       | ASTM D149 |

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