

Styrolution NOVODUR® P2HGV ABS, 16% Glass Fiber

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Injection molding grade, glass reinforced (16%). Applications: Automotive industry: instrument panels, rear light housings, internal components of domestic appliances.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-NOVODUR-P2HGV-ABS-16-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|--|--|---------------------|
| Density | 1.16 g/cc | 0.0419 lb/in ³ | |
| Water Absorption | 0.30 % | 0.30 % | Saturation in water |
| Water Absorption at Saturation | 0.30 % | 0.30 % | |
| Melt Flow | 3.0 g/10 min @Load 10.0 kg, Temperature 220 °C | 3.0 g/10 min @Load 22.0 lb, Temperature 428 °F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|--|----------|
| Tensile Strength, Ultimate | 70.0 MPa | 10200 psi | |
| Elongation at Break | 2.0 % | 2.0 % | |
| Tensile Modulus | 5.50 GPa | 798 ksi | |
| Charpy Impact Unnotched | 1.90 J/cm ² | 9.04 ft-lb/in ² | |
| | 0.400 J/cm ² @Temperature -30.0 °C | 1.90 ft-lb/in ² @Temperature -22.0 °F | |
| Charpy Impact, Notched | 0.500 J/cm ² | 2.38 ft-lb/in ² | |

| Thermal Properties | Metric | English | Comments |
|--|---|--|----------|
| CTE, linear, Parallel to Flow | 54.0 µm/m-°C @Temperature 20.0 °C | 30.0 µin/in-°F @Temperature 68.0 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 104 °C | 219 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C | 212 °F | |
| Vicat Softening Point | 104 °C | 219 °F | |

| Thermal Properties Flammability, UL 94 | ^{MP} Metric | ^{MP} English | Comments |
|---|-------------------------|--------------------------|----------|
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|--------------------|----------|
| Electrical Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | |
| Dielectric Constant | 2.9 | 2.9 | |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| Dielectric Strength | 3.1 | 3.1 | |
| | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| Dissipation Factor | 0.0040 | 0.0040 | |
| | @Frequency 100 Hz | @Frequency 100 Hz | |
| | 0.0060 | 0.0060 | |
| Comparative Tracking Index | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | |
| | 575 V | 575 V | |

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