

NOVA Chemicals Dylark® 480P12 High Performance Glass Filled Styrenic

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Very high modulus, High heat resistance, Excellent flow characteristics, Excellent adhesion to urethane
 Applications: Instrument panel substrates, consoles, Cluster housing, interior trim
 Injection Speed: Medium-Fast
 Information provided by NOVA Chemicals. INEOS NOVA began October 1 2007 as an expansion of the 50:50 joint venture between NOVA Chemicals and INEOS to include North American assets.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dylark-480P12-High-Performance-Glass-Filled-Styrenic.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	NOVA
Melt Flow	0.60 g/10 min @Load 2.16 kg, Temperature 230 °C	0.60 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Tensile Modulus	5.10 GPa	740 ksi	ASTM D638
Flexural Yield Strength	122 MPa	17700 psi	ASTM D790
Flexural Modulus	4.90 GPa	711 ksi	ASTM D790
Poissons Ratio	0.39	0.39	ASTM D638
Shear Modulus	1.83 GPa	265 ksi	Calculated
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C @Temperature 20.0 °C	32.2 µin/in-°F @Temperature 68.0 °F	NOVA
Deflection Temperature at 1.8 MPa (264 psi)	118 °C @Diameter 3.17 mm	244 °F @Diameter 0.125 in	bar; ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	249 - 288 °C	480 - 550 °F	Profile Temperature
Melt Temperature	260 - 288 °C	500 - 550 °F	Air purge at equilibrium conditions
Mold Temperature	43.0 - 60.0 °C	109 - 140 °F	Mold surface temperature at equilibrium conditions
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Screw Speed	80 - 125 rpm	80 - 125 rpm	

Descriptive Properties	Value	Comments
Filler %	12	Glass Fiber

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