

NOVA Chemicals Dylark® 378P15 Glass Reinforced Engineering Resin

Category : Polymer , Thermoplastic , SMA Polymer , Glass Reinforced, Modified SMA

Material Notes:

Features: Very high modulus, High heat resistance, excellent flow characteristics, excellent adhesion to urethane
Applications: Instrument panel substrates, Consoles, Cluster housings, Interior trim

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dylark-378P15-Glass-Reinforced-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Filler Content	15 %	15 %	Glass Fiber; ISO 3451-1
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 2577
Melt Flow	0.40 g/10 min @Load 2.16 kg, Temperature 230 °C	0.40 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	64.0 MPa	9280 psi	ISO 527-2
Elongation at Yield	2.2 %	2.2 %	ISO 527-2
Tensile Modulus	5.30 GPa	769 ksi	ISO 527-2
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Izod Impact, Notched (ISO)	8.20 kJ/m ² @Temperature -40.0 °C	3.90 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	8.50 kJ/m ² @Temperature 23.0 °C	4.04 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	2.16 J/cm ²	10.3 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.840 J/cm ²	4.00 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 μm/m-°C	31.0 μin/in-°F	NOVA Chemicals Laboratory Procedure
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	252 °F	Unannealed; ISO 75-2

Thermal Properties	@Thickness 4.00 mm Metric	@Thickness 0.157 in English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	249 - 288 °C	480 - 550 °F	Profile temperatures
Melt Temperature	260 - 288 °C	500 - 550 °F	Air purge at equilibrium conditions
Mold Temperature	43.3 - 60.0 °C	110 - 140 °F	Core mold surface temperature at equilibrium conditions
	54.4 - 71.1 °C	130 - 160 °F	Cavity 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
Injection Speed	medium-fast	

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