

NOVA Chemicals Dylark® 510XT Glass Reinforced Engineering Resin

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

Material Notes:

Features: Higher toughness product, Excellent stiffness, High heat resistance, Superior adhesion to urethane foam
Applications: Instrument panel substrates, Mid-Consoles, Center Stacks, Interior trim

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dylark-510XT-Glass-Reinforced-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ISO 1183
Filler Content	15 %	15 %	Glass Fiber; ISO 3451-1
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 2577
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 230 °C	1.1 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	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	4.80 GPa	696 ksi	ISO 527-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	4.30 GPa	624 ksi	ISO 178
Izod Impact, Notched (ISO)	4.60 kJ/m ² @Temperature -40.0 °C	2.19 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	2.91 J/cm ²	13.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	1.15 J/cm ²	5.47 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.4 μm/m-°C	28.0 μin/in-°F	NOVA Chemicals Laboratory Procedure
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °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	227 - 271 °C	440 - 520 °F	Profile temperatures
Melt Temperature	232 - 271 °C	450 - 520 °F	Air purge at equilibrium conditions
Mold Temperature	32.2 - 51.7 °C	90.0 - 125 °F	Core mold surface temperature at equilibrium conditions
	46.1 - 60.0 °C	115 - 140 °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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