NOVA Chemicals DYLARK® 250 Impact Grade Engineering Resin

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Features:High heat resistance Good chemical resistance High impact strength Excellent flow characteristicsApplications:Automotive interior trim applications Automotive consoles Structural HousingsInformation provided by Nova ChemicalsINEOS 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-250-Impact-Grade-Engineering-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ISO 1183
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ISO 2577
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 230 °C	0.90 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ISO 527-2
Elongation at Break	27 %	27 %	ISO 527-2
Tensile Modulus	2.30 GPa	334 ksi	ISO 527-2
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	8.80 kJ/m²	4.19 ft-lb/in²	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	NOVA Chemicals Laboratory Procedure
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C @Diameter 4.00 mm	199 °F @Diameter 0.157 in	Unannealed; bar; ISO 75-2

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 260 °C	351 - 500 °F	Profile temperatures
Melt Temperature	204 - 260 °C	399 - 500 °F	air purge at equilibrium conditions

Processing Properties	Metric	English	Comments
Mold Temperature	43.0 - 60.0 °C	109 - 140 °F	Core surface temp. at equilibrium
	54.0 - 71.0 °C	129 - 160 °F	Cavity surface temp. at equilibrium
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	Typically 50 psi
Screw Speed	40 - 80 rpm	40 - 80 rpm	

Descriptive Properties	Value	Comments
Injection Speed	medium-fast	Typically fast

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