

## NOVA Chemicals DYLARK® 480P16 Glass Reinforced Engineering Resin

Category : Polymer , Thermoplastic , Polystyrene (PS)

### Material Notes:

Features:Very high modulus High heat resistance Excellent flow characteristics Excellent adhesion to urethaneApplications:Instrument panel substrates Consoles Cluster housings Interior trimInformation 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-480P16-Glass-Reinforced-Engineering-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-DYLARK-480P16-Glass-Reinforced-Engineering-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ISO 1183
Filler Content	16 %	16 %	Glass Fiber; ISO 3451/1
Linear Mold Shrinkage	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	ISO 2577
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 230 °C	0.50 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	74.0 MPa	10700 psi	ISO 527-2
Elongation at Break	2.2 %	2.2 %	ISO 527-2
Tensile Modulus	5.90 GPa	856 ksi	ISO 527-2
Flexural Strength	118 MPa	17100 psi	ISO 178
Flexural Modulus	5.55 GPa	805 ksi	ISO 178
Izod Impact, Notched (ISO)	8.10 kJ/m <sup>2</sup>	3.85 ft-lb/in <sup>2</sup>	ISO 180/1A
	7.70 kJ/m <sup>2</sup> @Temperature -40.0 °C	3.66 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180/1A
Charpy Impact Unnotched	2.75 J/cm <sup>2</sup>	13.1 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.840 J/cm <sup>2</sup>	4.00 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 µm/m-°C @Temperature 20.0 °C	28.3 µin/in-°F @Temperature 68.0 °F	NOVA Chemicals Laboratory Procedure
Deflection Temperature at 1.8 MPa	120 °C	248 °F	

(264 psi) Thermal Properties	Metric @ Diameter 4.00 mm	English @ Diameter 0.157 in	Unannealed, bar; ISO 75-2 Comments
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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	43.0 - 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	80 - 125 rpm	80 - 125 rpm	

Descriptive Properties	Value	Comments
Injection Speed	medium-fast	Typically fast

## Contact Songhan Plastic Technology Co.,Ltd.

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