

NOVA Chemicals Dylark® 232 High Performance Styrenic, Transparent Grade

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

High heat resistance, Sparking water-white clarity, Good chemical resistance, High modulus, for superior shear and torque resistance
 Applications: Light pipes and lighting, High heat microwave packaging, Cosmetics, Dishwasher safe tumblers, Coatings and adhesives
 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-232-High-Performance-Styrenic-Transparent-Grade.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	NOVA
Melt Flow	1.9 g/10 min @Load 2.16 kg, Temperature 230 °C	1.9 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ASTM D785
Tensile Strength, Ultimate	49.7 MPa	7210 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Modulus of Elasticity	3.17 GPa	460 ksi	ASTM D638
Flexural Yield Strength	112 MPa	16200 psi	ASTM D790
Flexural Modulus	3.64 GPa	528 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 μm/m-°C @Temperature 20.0 °C	37.8 μin/in-°F @Temperature 68.0 °F	NOVA
Deflection Temperature at 1.8 MPa (264 psi)	108 °C @Diameter 6.35 mm	226 °F @Diameter 0.250 in	bar; ASTM D648
Vicat Softening Point	122 °C	252 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.583	1.583	
Haze	<= 2.0 %	<= 2.0 %	ASTM D1003
Transmission, Visible	88 %	88 %	ASTM D1003

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 260 °C	351 - 500 °F	Profile Temperature
Melt Temperature	204 - 260 °C	399 - 500 °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	40 - 80 rpm	40 - 80 rpm	

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