

Noble Polymers Regis™ 115090 Thermoplastic Olefin (TPO)

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE , Thermoplastic Olefinic Elastomer (TPO) , TPO

Material Notes:

Regis is a TPO (thermoplastic olefin) produced by Noble Polymers based on olefin/elastomer compounding. We have created Regis for use in bumpers and bumper fascias, air dams, exterior panels, material handling, step pads and other applications requiring rigid TPOs. This recyclable product is a tough, high-strength thermoplastic that maintains its properties over a wide temperature range. Information provided by Noble Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Noble-Polymers-Regis-115090-Thermoplastic-Olefin-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Linear Mold Shrinkage	0.0083 cm/cm	0.0083 in/in	ASTM D955
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 230 °C	15 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.78 MPa	2579 psi	ASTM D638
Elongation at Break	665.8 %	665.8 %	ASTM D412
Izod Impact, Notched	1.02 J/cm @Temperature -30.0 °C	1.91 ft-lb/in @Temperature -22.0 °F	ASTM D256
	1.53 J/cm @Temperature 23.0 °C	2.87 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	15.86 J @Temperature -30.0 °C	11.70 ft-lb @Temperature -22.0 °F	ASTM D5420
	15.86 J @Temperature 23.0 °C	11.70 ft-lb @Temperature 73.4 °F	ASTM D5420
Tangent Modulus	800 MPa	116000 psi	ASTM D790

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	191 - 218 °C	375 - 425 °F	
Ejection Temperature	26.7 - 54.4 °C	80.0 - 130 °F	Water Temperature

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