

Noble Polymers Ecobarrier™ 0414 Thermoplastic Olefin (TPO)

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

Material Notes:

Ecobarrier is a TPO (thermoplastic olefin) produced by Noble Polymers based on olefin/elastomer compounding. Ecobarrier is primarily used as a sound barrier material in low heat applications. Information provided by Noble Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Noble-Polymers-Ecobarrier-0414-Thermoplastic-Olefin-TPO.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Melt Flow	6.04 g/10 min	6.04 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength at Break	4.14 MPa	600 psi	ASTM D412
Elongation at Break	100 %	100 %	ASTM D412
2% Secant Modulus	0.0310 GPa	4.50 ksi	ASTM D790
Tear Strength	14.0 kN/m	80.0 pli	ASTM D624

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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