

PolyOne Elastamax™ XL-2175 Thermoplastic Polyolefin Elastomer (TPO (POE))

Category : Polymer , Thermoplastic , Elastomer, TPE , Olefinic TPE

Material Notes:

PolyOne's Elastamax™ XL thermoplastic olefins (TPOs) are based on pelletized blends of polyolefin resins and select elastomers such as EPDM. These materials have been engineered to provide a balance of physical properties and processability, and are an economical alternative to traditional thermoset rubber and more costly thermoplastic elastomers. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Elastamax-XL-2175-Thermoplastic-Polyolefin-Elastomer-TPO-POE.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	81	81	15 sec; ASTM D2240
	86	86	ASTM D2240
Tensile Strength at Break	7.72 MPa	1120 psi	510 mm/min; ASTM D412A
Tensile Stress	4.41 MPa	640 psi	510 mm/min; ASTM D412A
	@Strain 100 %	@Strain 100 %	
Tensile Stress	5.31 MPa	770 psi	510 mm/min; ASTM D412A
	@Strain 300 %	@Strain 300 %	
Elongation at Break	700 %	700 %	510 mm/min; ASTM D412A
Tear Strength	49.0 kN/m	280 pli	Die C, 510 mm/min; ASTM D624
Compression Set	43 %	43 %	ASTM D395B
	@Temperature 23.0 °C, Time 79200 sec	@Temperature 73.4 °F, Time 22.0 hour	

Descriptive Properties	Value	Comments
Additive	UV Stabilizer	
Features	General Purpose	
Forms	Pellets	
Generic Material	TPO (POE)	
Generic Name	Thermoplastic Polyolefin Elastomer (TPO (POE))	
Processing Method	Extrusion	

Descriptive Properties	Value	Comments
Regional Availability	Asia & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Construction Applications	
	General Purpose	
	Industrial Applications	

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