

PolyOne Maxxam™ FR PE 152 Polyethylene, Unspecified (PE, Unspecified)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Maxxam™ FR flame-retardant polyolefin compounds and masterbatches meet stringent flammability performance requirements defined by industry agencies, including Underwriters Laboratories UL 94 V-2, V-0, and 5VA performance ratings. In addition, many compounds in the Maxxam FR portfolio offer elevated Relative Thermal Index (RTI) ratings. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Maxxam-FR-PE-152-Polyethylene-Unspecified-PE-Unspecified.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.998 g/cc	0.998 g/cc	ASTM D792
Melt Flow	2.7 g/10 min	2.7 g/10 min	Procedure A; ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.9 MPa	2310 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	500 %	500 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	1.10 GPa	160 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	17.2 MPa	2490 psi	ASTM D790
Flexural Modulus	0.510 GPa	74.0 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	15.8 J	11.7 ft-lb	ASTM D3029
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	54.0 °C	129 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Deflection Temperature at 1.8 MPa (264 psi)	46.0 °C	115 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-2	V-2	ALL; UL 94

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	V-0	V-0	NC; UL 94
	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	26 %	26 %	ASTM D2863
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Features	Flame Retardant	
Forms	Pellets	
Generic Material	PE, Unspecified	
Generic Name	Polyethylene, Unspecified (PE, Unspecified)	
Processing Method	Rotational Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	South America	

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