

## PolyOne Maxxam™ FR PE 161-1A Polyethylene, High Density (HDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

### 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.\*NOTE: HARDNESS DATA IS BASED ON SINGLE LOT DATA. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Maxxam-FR-PE-161-1A-Polyethylene-High-Density-HDPE.php](http://www.lookpolymers.com/polymer_PolyOne-Maxxam-FR-PE-161-1A-Polyethylene-High-Density-HDPE.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.998 g/cc	0.998 g/cc	ASTM D792
Melt Flow	0.91 - 2.7 g/10 min @Load 2.16 kg, Temperature 190 °C	0.91 - 2.7 g/10 min @Load 4.76 lb, Temperature 374 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	10 sec; ASTM D2240
	66	66	ASTM D2240
Tensile Strength, Yield	20.7 MPa	3000 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	500 %	500 %	Type I, 51 mm/min; ASTM D638
Flexural Modulus	0.276 GPa	40.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	67.0 °C	153 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	
Flammability, UL94	V-2	V-2	NC; UL 94
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	27 %	27 %	ASTM D2863
	@Thickness 3.18 mm	@Thickness 0.125 in	

Descriptive Properties	Value	Comments
Additional Information	*NOTE: HARDNESS DATA IS BASED ON SINGLE LOT DATA.	
Features	Flame Retardant	

Descriptive Properties	Value	Comments
Generic Material	HDPE	
Generic Name	Polyethylene, High Density (HDPE)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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