Maxxam™ FR PP FR 7C11

Polypropylene

Key Characteristics

Product Description
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.

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant	• High Impact Resistance	• Medium Flow
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.930	0.930	ASTM D792
Specific Volume	29.8 in³/lb	1.08 cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (230°C/2.16 kg)	14 g/10 min	14 g/10 min	ASTM D1238
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3] (Yield)	4000 psi	27.6 MPa	ASTM D638
Tensile Elongation [3] (Break)	300 %	300 %	ASTM D638
Flexural Modulus	185000 psi	1280 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	0.90 ft·lb/in	48 J/m	
Gardner Impact			ASTM D3029
73°F (23°C), 0.125 in (3.18 mm)	250 in·lb	28.2 J	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	189 °F	87.0 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.031 in (0.79 mm), ALL)	V-2	V-2	UL 94
Oxygen Index (0.125 in (3.18 mm))	24 %	24 %	ASTM D2863

Notes

[1] Typical values are not to be construed as specifications.

[2] Procedure A

[3] Type I, 2.0 in/min (51 mm/min)