Maxxam™ FR PP 301 NATL S-30

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		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	0.982	0.982	ASTM D792
Melt Mass-Flow Rate (MFR) [2] (230°C/2.16 kg)	27 g/10 min	27 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010 to 0.020 in/in	1.0 to 2.0 %	ASTM D955
Molding Shrinkage - Across Flow	0.010 to 0.020 in/in	1.0 to 2.0 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3] (Yield)	4200 psi	29.0 MPa	ASTM D638
Flexural Modulus	175000 psi	1210 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	0.40 ft·lb/in	21 J/m	
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)	185 °F	85.0 °C	
RTI Elec			UL 746
0.016 in (0.41 mm)	212 °F	100 °C	
0.030 in (0.75 mm)	230 °F	110 °C	
0.06 in (1.5 mm)	230 °F	110 °C	
0.12 in (3.0 mm)	230 °F	110 °C	
RTI Imp			UL 746
0.016 in (0.41 mm)	194 °F	90.0 °C	
0.030 in (0.75 mm)	221 °F	105 °C	
0.06 in (1.5 mm)	221 °F	105 °C	
0.12 in (3.0 mm)	239 °F	115 °C	
RTI Str			UL 746
0.016 in (0.41 mm)	212 °F	100 °C	
0.030 in (0.75 mm)	230 °F	110 °C	
0.06 in (1.5 mm)	230 °F	110 °C	
0.12 in (3.0 mm)	248 °F	120 °C	

Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.030 in (0.75 mm)	V-0	V-0	
0.12 in (3.0 mm)	V-0	V-0	
0.016 in (0.40 mm)	VTM-0	VTM-0	

Notes

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

[2] Procedure A

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

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