Maxxam™ FR QD 813.Y001-1000 RoHS

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 [1]		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Filler, 30% Filler by Weight	• Glass Fiber	
Features	• Flame Retardant	• High Impact Resistance	
Forms	• Pellets		

Technical Properties [2]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.46	1.46	ASTM D792
Specific Volume	19.8 in³/lb	0.715 cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) [3] (230°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	ASTM D955
Outdoor Suitability (All Colors)	f1	f1	UL 746C
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [4] (Yield)	6500 psi	44.8 MPa	ASTM D638
Tensile Elongation [5] (Break)	7.0 %	7.0 %	ASTM D638
Flexural Modulus	680000 psi	4690 MPa	ASTM D790
Flexural Strength	10000 psi	68.9 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	3.5 ft·lb/in	190 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)	302 °F	150 °C	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.5 mm), All Colors	V-0	V-0	
0.08 in (2.0 mm), All Colors	• V-0 • 5VA	• V-0 • 5VA	
0.12 in (3.0 mm), All Colors	• V-0 • 5VA	• V-0 • 5VA	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	392 to 446 °F	200 to 230 °C
Mold Temperature	86 to 158 °F	30 to 70 °C

Notes

[1] EM1002639160 QD-813.Y001-1000 RoHS replaced this grade.

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

[3] Procedure A

[4] Type I, 0.20 in/min (5.1 mm/min)

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

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