



Maxxam™ FR QD-813.Y001-1001(f1)

Polypropylene

Key Characteristics

Product Description

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

Internal Code:5216029

General

Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant • Heat Stabilizer
Features	• Halogen Free • Specialty Grade
Uses	• Construction Applications • Consumer Applications • Industrial Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.45	1.45	ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3 in/in	0.30 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²			ASTM D638
73°F (23°C), 0.126 in (3.20 mm)	8700 psi	60.0 MPa	
Tensile Elongation ²			ASTM D638
Break, 73°F (23°C), 0.126 in (3.20 mm)	5.0 %	5.0 %	
Flexural Modulus			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	725000 psi	5000 MPa	
Flexural Strength			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	16000 psi	110 MPa	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	3.4 ft-lb/in	180 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.126 in (3.20 mm)	311 °F	155 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity (0.126 in (3.20 mm))	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Volume Resistivity (0.126 in (3.20 mm))	1.0E+16 ohms·cm	1.0E+16 ohms·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm), ALL)	V-0	V-0	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

¹ Typical values are not to be construed as specifications.

² 2.0 in/min (50 mm/min)



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