Maxxam™ X MX5200-8054 FR NC001

Polypropylene

Key Characteristics

Product Description	
Polypropylene, flame retardant and low blooming	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Features	• Flame Retardant
Appearance	• Natural Color
Processing Method	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.02	1.02	ASTM D792
Molding Shrinkage	1.6 to 1.8 %	1.6 to 1.8 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]	3630 psi	25.0 MPa	ASTM D638
Tensile Elongation [2] (Break)	200 %	200 %	ASTM D638
Flexural Modulus [3]	189000 psi	1300 MPa	ASTM D790
Flexural Strength [3]	5080 psi	35.0 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.9 ft·lb/in	100 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.126 in (3.20 mm)	221 °F	105 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	194 °F	90.0 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	1.0E+16 ohms	1.0E+16 ohms	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.5 mm))	V-0	V-0	Internal Method
Glow Wire Flammability Index	1610 °F	875 °C	IEC 60695-2-12
Glow Wire Ignition Temperature	1610 °F	875 °C	IEC 60695-2-13

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	392 to 464 °F	200 to 240 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Injection Notes
Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

Notes

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

[2] 2.0 in/min (50 mm/min)

[3] 0.051 in/min (1.3 mm/min)

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