Maxxam™ ET5200-8016 RS Natural

Polypropylene

Key Characteristics

Product Description		
40% glass fiber reinforced polypropylene		
General		
Material Status	• Commercial: Active	
Regional Availability	• Asia Pacific	
Filler / Reinforcement	• Glass Fiber	
Appearance	• Natural Color	
Processing Method	• Extrusion	• Injection Molding

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.21 g/cm³	1.21 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5 g/10 min	1.5 g/10 min	ISO 1133
Molding Shrinkage	0.20 to 0.50 %	0.20 to 0.50 %	ASTM D955
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Stress (Break)	12300 psi	85.0 MPa	ISO 527-2/5
Flexural Modulus [2]	943000 psi	6500 MPa	ISO 178
Flexural Stress [2]	18100 psi	125 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength	5.2 ft·lb/in²	11 kJ/m²	ISO 179
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	284 °F	140 °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 (1.6 mm))	HB	HB	Internal Method

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] 0.079 in/min (2.0 mm/min)

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