



Maxxam™ VS-693.G001-8009

Polypropylene

Key Characteristics

Product Description	
Good impact strength	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber
Features	• Good Impact Resistance
Appearance	• Black
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.00	1.00	ASTM D792
Molding Shrinkage - Flow	7.0E-3 to 0.010 in/in	0.70 to 1.0 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ²	6960 psi	48.0 MPa	ASTM D638
Flexural Modulus ³	305000 psi	2100 MPa	ASTM D790
Flexural Strength ³	9430 psi	65.0 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)	6.6 ft-lb/in	350 J/m	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.126 in (3.20 mm)	212 °F	100 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+15 ohms	1.0E+15 ohms	ASTM D257
Charge Decay Time - 12% RH, 5000 kV to 50 kV	2777777853490. ₁ hr	2777777853490. ₁ hr	MIL B-81705C
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 185 °F	80.0 to 85.0 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	392 to 464 °F	200 to 240 °C
Middle Temperature	392 to 464 °F	200 to 240 °C
Front Temperature	392 to 464 °F	200 to 240 °C
Mold Temperature	86.0 to 140 °F	30.0 to 60.0 °C

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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 0.20 in/min (5.0 mm/min)

³ 0.051 in/min (1.3 mm/min)

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