



Edgetek™ QT-15GF/000 natur SO

Syndiotactic Polystyrene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Appearance	• Natural Color		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity ²	1.14	1.14	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Molding Shrinkage - Flow ³	5.0E-3 to 0.010 in/in	0.50 to 1.0 %	ISO 2577
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ⁴ 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	783000 psi	5400 MPa	ISO 527
Tensile Strength ⁵ Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	12900 psi	89.0 MPa	ISO 527
Tensile Elongation ⁵ Break, 73°F (23°C), 0.157 in (4.00 mm), Injection Molded	1.7 %	1.7 %	ISO 527
Flexural Modulus (73°F (23°C))	769000 psi	5300 MPa	ISO 178
Flexural Strength (73°F (23°C))	17100 psi	118 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	3.0 ft·lb/in ²	6.3 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength 73°F (23°C), Injection Molded	12 ft·lb/in ²	25 kJ/m ²	ISO 179
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	518 to 608 °F	270 to 320 °C
Mold Temperature	176 to 302 °F	80 to 150 °C

Notes

¹ Typical values are not to be construed as specifications.

² ±0.05

³ Bergmann method

⁴ 0.039 in/min (1.0 mm/min)

⁵ 0.20 in/min (5.0 mm/min)



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