



Edgetek™ sPS QT-40GF/000 NATURAL (EM00004141BJ) 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		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37	ISO 1183
Molding Shrinkage - Flow	3.0E-3 to 8.0E-3 in/in	0.30 to 0.80 %	ISO 2577
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.86E+6 psi	12800 MPa	ISO 527
Tensile Strength ² (Break)	21800 psi	150 MPa	ISO 527
Tensile Elongation ² (Break)	1.0 to 1.5 %	1.0 to 1.5 %	ISO 527
Flexural Modulus	1.56E+6 psi	10800 MPa	ISO 178
Flexural Strength	26800 psi	185 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	17 ft·lb/in ²	35 kJ/m ²	ISO 179
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	> 1.0E+17 ohms	> 1.0E+17 ohms	IEC 60093
Volume Resistivity	> 1.0E+15 ohms·cm	> 1.0E+15 ohms·cm	IEC 60093
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	518 to 608 °F	270 to 320 °C
Mold Temperature	302 °F	150 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.0 mm/min)