



Edgetek™ sPS QT-30GF/000

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	1.28	1.28	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	1.48E+6 psi	10200 MPa	ISO 527
Tensile Strength ² (Break)	17800 psi	123 MPa	ISO 527
Tensile Elongation ² (Break)	1.6 %	1.6 %	ISO 527
Flexural Modulus	1.38E+6 psi	9500 MPa	ISO 178
Flexural Strength	24700 psi	170 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	2.9 ft-lb/in ²	6.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	14 ft-lb/in ²	30 kJ/m ²	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	464 °F	240 °C	ISO 75-2/A
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	176 to 302 °F	80 to 150 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.0 mm/min)