Edgetek™ QT-20MN/000 natural HI

Syndiotactic Polystyrene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral\Inorganic		
Appearance	• Natural Color		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density (73°F (23°C))	1.20 g/cm³	1.20 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 g/10 min	10 g/10 min	ISO 1133
Molding Shrinkage - Flow [2]			
73°F (23°C), 0.157 in (4.00 mm), Injection Molded	< 0.013 in/in	< 1.3 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [3] (73°F (23°C))	609000 psi	4200 MPa	ISO 527
Tensile Strength [3] (Break, 73°F (23°C))	7250 psi	50.0 MPa	ISO 527
Tensile Elongation [3] (Break, 73°F (23°C))	1.5 %	1.5 %	ISO 527
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in²	13 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	4.8 ft·lb/in²	10 kJ/m²	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	446 °F	230 °C	
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] Bergmann Method

[3] Type I, 0.20 in/min (5.0 mm/min)