



Edgetek™ PP-20GF/000 HS

Polypropylene

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.04	1.04	ASTM D792
Molding Shrinkage - Flow	4.0E-3 in/in	0.40 %	ASTM D955
Water Absorption (24 hr)	0.010 %	0.010 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	580000 psi	4000 MPa	ASTM D638
Tensile Strength ² (Break)	7000 psi	48.3 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	580000 psi	4000 MPa	ASTM D790
Flexural Strength	12000 psi	82.7 MPa	ASTM D790
Compressive Strength	7700 psi	53.1 MPa	ASTM D695
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	1.3 ft·lb/in	69 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness			ASTM D785
M-Scale	49	49	
R-Scale	111	111	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	300 °F	149 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	280 °F	138 °C	ASTM D648
CLTE - Flow	2.4E-5 in/in/°F	4.3E-5 cm/cm/°C	ASTM D696
Thermal Conductivity	2.2 Btu·in/hr/ft²/°F	0.32 W/m/K	ASTM C177
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	1.0E+15 ohms·cm	1.0E+15 ohms·cm	ASTM D257
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	420 to 460 °F	216 to 238 °C
Mold Temperature	80 to 120 °F	27 to 49 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)



Beyond Polymers.

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