



Edgetek™ MLS-20GF/000

Polycarbonate + PSU

Key Characteristics

Product Description

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Glass fiber reinforcement, 20 % Filler by Weight		
Features	• General Purpose	• Heat Resistance, High	
Uses	• Automotive Applications • Consumer Applications	• General Purpose • Industrial Applications	
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.36	1.36	ASTM D792
Molding Shrink (Flow)	0.30 to 0.40 %	0.30 to 0.40 %	ASTM D955
Water Absorption (24 hr, 0.125 in (3.18 mm))	0.16 %	0.16 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ²	720000 psi	4960 MPa	ASTM D638
Tensile Strength ² (Yield)	15000 psi	103 MPa	ASTM D638
Tensile Elongation ² (Break)	3.0 to 4.0 %	3.0 to 4.0 %	ASTM D638
Flexural Modulus	690000 psi	4760 MPa	ASTM D790
Flexural Strength	18000 psi	124 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
73 °F (23 °C), 0.125 in (3.18 mm), Injection Molded	2.00 ft-lb/in	107 J/m	

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	630 to 660 °F	332 to 349 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

CONTACT INFORMATION

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