

EdgetekTM 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.

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

Technical Properties 1

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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

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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.

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² Type I, 0.20 in/min (5.1 mm/min)

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