

EdgetekTM AT-1000 Acetal (POM) Copolymer

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	EuropeLatin America	
Features	 Copolymer 	General Purpose	
Uses	 Automotive Applications 	 Consumer Applications 	 Industrial Applications
Forms	 Pellets 		
Processing Method	 Injection Molding 		

Technical Properties 1

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Typical Value (English)	Typical Value (SI)	Test Method
1.41	1.41	ASTM D792
0.020 to 0.022 in/in	2.0 to 2.2 %	ASTM D955
0.20 %	0.20 %	ASTM D570
Typical Value (English)	Typical Value (SI)	Test Method
435000 psi	3000 MPa	ASTM D638
8800 psi	60.7 MPa	ASTM D638
8.0 to 10 %	8.0 to 10 %	ASTM D638
365000 psi	2520 MPa	ASTM D790
13000 psi	89.6 MPa	ASTM D790
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D256A
1.3 ft·lb/in	69 J/m	
Typical Value (English)	Typical Value (SI)	Test Method
		ASTM D648
230 °F	110 °C	
	Typical Value (English) 1.41 0.020 to 0.022 in/in 0.20 % Typical Value (English) 435000 psi 8800 psi 8.0 to 10 % 365000 psi 13000 psi Typical Value (English) 1.3 ft·lb/in Typical Value (English)	1.41 1.41 0.020 to 0.022 in/in 2.0 to 2.2 % 0.20 % 0.20 % Typical Value (English) 435000 psi 3000 MPa 8800 psi 60.7 MPa 8.0 to 10 % 8.0 to 10 % 365000 psi 2520 MPa 13000 psi 89.6 MPa Typical Value (English) Typical Value (SI) Typical Value (English) Typical Value (SI)

Processing Information

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Injection	Typical Value (English)	Typical Value (SI)	
Processing (Melt) Temp	400 to 440 °F	204 to 227 °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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