Edgetek™ ATC-30GB / 000 NATURAL UV HF

Acetal (POM) Copolymer

Key Characteristics

Product Description			
The Engineered Materials group of PolyOne offers a POM range of unfilled, filled and impact grades compounds, available under the brand name of Edgetek, using POM homopolymer or copolymer as base resin. Available in a wide range of physical properties, these materials are specified where certain key performance issues are critical. In addition to the standard range, products can be custom-formulated to meet your specific requirements or colours, offering you both product and design flexibility.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East	• Europe	
Filler / Reinforcement	• Glass Bead, 30% Filler by Weight		
Features	• Good Mold Release	• Heat Stabilized	• UV Stabilized
Uses	• Automotive Applications • Consumer Applications	• Electrical/Electronic Applications • Industrial Applications	
Appearance	• Natural Color		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density [2]	1.58 g/cm³	1.58 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	10 to 18 cm³/10min	10 to 18 cm³/10min	ISO 1133
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	479000 psi	3300 MPa	ISO 527-2
Tensile Stress (Yield)	4350 psi	30.0 MPa	ISO 527-2
Tensile Strain (Break)	> 17 %	> 17 %	ISO 527-2
Flexural Modulus	363000 psi	2500 MPa	ISO 178
Flexural Stress	8700 psi	60.0 MPa	ISO 178
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	293 °F	145 °C	
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	203 °F	95.0 °C	
Vicat Softening Temperature	320 °F	160 °C	ISO 306
Melting Temperature (DSC)	329 to 338 °F	165 to 170 °C	ISO 3146
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Comparative Tracking Index	600 V	600 V	IEC 60112
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating	HB	HB	UL 94
Flammability	< 4 in/min	< 100 mm/min	FMVSS

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 hr	4.0 hr

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] +-0.02

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