



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 • Electrical/Electronic Applications • Consumer 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/cm ³	1.58 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	10 to 18 cm ³ /10min	10 to 18 cm ³ /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 66 psi (0.45 MPa), Unannealed	293 °F	145 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	203 °F	95.0 °C	ISO 75-2/A
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

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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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