Edgetek™ ATC-15GB / 000 NATURAL UV

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	• Asia Pacific	• Europe
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight	
Features	• 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]	1.48 g/cm³	1.48 g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00 to 9.00 cm³/10min	6.00 to 9.00 cm³/10min	ISO 1133
Molding Shrinkage - Flow (0.0787 in (2.00 mm))	0.015 to 0.031 in/in	1.5 to 3.1 %	ISO 294-4
Molding Shrinkage - Across Flow (0.0787 in (2.00 mm))	0.016 to 0.022 in/in	1.6 to 2.2 %	ISO 294-4
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus	377000 psi	2600 MPa	ISO 527-2
Tensile Stress (Yield)	6090 psi	42.0 MPa	ISO 527-2
Tensile Strain (Break)	20 %	20 %	ISO 527-2
Flexural Modulus	363000 psi	2500 MPa	ISO 178
Flexural Strength	10900 psi	75.0 MPa	ISO 178
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	1.4 ft·lb/in²	3.0 kJ/m²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
73°F (23°C)	26 ft·lb/in²	55 kJ/m²	
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	194 °F	90.0 °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	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	410 to 428 °F	210 to 220 °C
Mold Temperature	140 to 212 °F	60 to 100 °C

Notes

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

[2] +-0.02

Beyond Polymers.

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