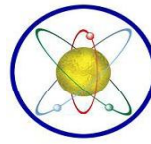


YTH M90

Acetal (POM) Copolymer



PolySource LLC
Engineered Plastic Resins

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.41 g/cm ³	1.41 g/cm ³	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	9.0 g/10min	9.0 g/10min	ISO 1133
Water Absorption (73°F (23°C), 24 hr)	0.60%	0.60%	ISO 62
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	384,000 psi	2,650 MPa	ISO 527-2
Tensile Stress (Yield)	8,990 psi	62.0 MPa	ISO 527-2
Tensile Strain (Break)	35%	35%	ISO 527-2
Flexural Modulus	377,000 psi	2,600 MPa	ISO 178
Flexural Strength	12,800 psi	88.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.9 ft-lb/in ²	6.0 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temp. 264 psi (1.8 MPa), Unannealed	203°F	95.0°C	ISO 75-2/A
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL94
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 194° F	80 to 90° C	
Drying Time	3 to 4 hrs	3 to 4 hrs	
Rear Temperature	320 to 356°F	160 to 180° C	
Middle Temperature	338 to 392°F	170 to 200° C	
Front Temperature	374 to 410°F	190 to 210° C	
Nozzle Temperature	356 to 410°F	180 to 210° C	
Processing (Melt) Temp.	356 to 410°F	180 to 210° C	
Mold Temperature	140 to 194°F	60 to 90° C	
Injection Pressure	7,250 to 14,500 psi	50 to 100 MPa	
Holding Pressure	4,350 to 11,600 psi	30 to 80 MPa	
Back Pressure	0 to 72.5 psi	0 to 0.500 MPa	
Screw Speed	50 to 120 rpm	50 to 120 rpm	
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	356 to 374°F	180 to 190° C	

¹Typical properties: these are not to be construed as specifications

The test values reported are typical and should be considered averages. However, due to varying processing methods and equipment conditions, no guarantees or warranties are expressed or implied, including expressions of fitness for purpose or merchantability. Samples of our products are available for inspection and testing and each buyer is responsible for conducting its own tests to determine the product's fitness for its intended use. PolySource, LLC in no event, will be held liable for any loss or damage that may arise as a result of the use or application of the product or information provided.