

BESTPOM H02/01

Acetal (POM) Homopolymer

Triesa Plastics

Message:

Acetal homopolymer resin natural standard of low fluidity. As it has high viscosity is perfect to achieve pieces with good mechanical properties in terms of rigidity, stiffness and impact, is suggested for technical pieces of automotive and technical gear pieces.

General Information			
Additive	Lubricant		
Features	Good Impact Resistance		
	Good Stiffness		
	High Rigidity		
	High Viscosity		
	Homopolymer		
	Low Flow		
	Lubricated		
Uses	Automotive Applications		
	Gears		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)	2.5	g/10 min	ISO 1133
Molding Shrinkage	2.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62
Humidity - Pellets	0.20	%	ISO 1110
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	82		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress	71.0	MPa	ISO 527-2
Tensile Strain (Break)	65	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
Vicat Softening Temperature	170	°C	ISO 306
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Electric Strength	32	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 100	mm/min	FMVSS 302
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	40.0 to 80.0	°C	

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