

TECACOMP® POM TRM natural 3758

Acetal (POM) Homopolymer
Ensinger GmbH

Message:

Main features
very good bearing and wear properties
Target Industries
automotive industry
mechanical engineering

General Information			
Filler / Reinforcement	PTFE fiber		
Additive	Silicone Oil		
Features	Homopolymer		
	Good wear resistance		
Uses	Application in Automobile Field		
Appearance	Natural color		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	
Apparent Density	0.68	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.50	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	2.5	%	ISO 294-4
Flow	2.8	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2/50
Tensile Stress	60.0	MPa	ISO 527-2/50
Tensile Strain (Break)	25	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	170	°C	ISO 75-2/B
1.8 MPa, not annealed	115	°C	ISO 75-2/A

Glass Transition Temperature	-60.0	°C	DIN 53765
Melting Temperature	175	°C	DIN 53765
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	1.2E-4	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.2E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity ¹	0.30	W/m/K	DIN EN 821
Service Temperature			
--	> -30	°C	
long term		°C	
short term		°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	6.6E+13	ohms	DIN EN 61340
Volume Resistivity	4.5E+15	ohms·cm	DIN EN 61340
Flammability	Nominal Value	Unit	Test Method
Flammability Classification	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	80 - 100	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	80 - 100	°C	
NOTE			

1. Through-plane

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