

TRIBOCOMP® POM TS0

Acetal (POM) Copolymer

EPIC Polymers

Message:

TRIBOCOMP® POM TS0 is a polyoxymethylene (POM) copolymer product, which contains a filler of 20% ptfе fiber. It is available in Europe.

Features include:

Copolymer

Lubrication

General Information			
Filler / Reinforcement	PTFE fiber, 20% filler by weight		
Additive	PTFE lubricant (20%)		
Features	Copolymer		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ISO 1183
Molding Shrinkage - Flow	2.2	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus (23°C)	1800	MPa	ISO 178
Flexural Stress (23°C)	50.0	MPa	ISO 178
Coefficient of Friction			ASTM D3702
Dynamic	0.14		ASTM D3702
Static	0.080		ASTM D3702
Wear Factor	18.0		ASTM D3702
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	55	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	150	°C	ISO 75-2/B
1.8 MPa, not annealed	105	°C	ISO 75-2/A
CLTE - Flow (23°C)	1.0E-4	cm/cm/°C	ISO 7991
Thermal Conductivity	0.23	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Dielectric Strength (2.00 mm)	35	kV/mm	IEC 60243-1

Comparative Tracking Index	600	V	IEC 60112
Additional Information			
The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	160 - 210	°C	
Middle Temperature	170 - 220	°C	
Front Temperature	180 - 220	°C	
Nozzle Temperature	200 - 225	°C	
Processing (Melt) Temp	< 220	°C	
Mold Temperature	80.0 - 120	°C	

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