

EPIMIX POM PTFE 10 NC

Acetal (POM) Copolymer
EPSAN Plastik SAN. ve TiC. A.S.

Message:
POLYACETAL POM, reinforced with 10% of PTFE , Standard-flow grad, for injection molding.
POLYACETAL POM , is used in all sectors of industry, compliance with RoHs derivatives.

General Information				
Filler / Reinforcement		PTFE fiber, 10% filler by weight		
Features		Copolymer		
		Good liquidity		
RoHS Compliance		RoHS compliance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.44	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.9	--	%	ISO 294-4
Flow direction: 3.00mm	1.4	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	79	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2100	1950	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	50.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	< 40	< 30	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2050	1800	MPa	ISO 178
Flexural Stress ² (23°C)	75.0	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	12	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ISO 180/1A
-40°C	6.0	7.0	kJ/m ²	ISO 180/1A
23°C	8.0	10	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	150	--	°C	ISO 75-2/A

Vicat Softening Temperature	152	--	°C	ISO 306/B120
Melting Temperature (DSC)	160	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	--		UL 94, IEC 60695-11-10, -20

Additional Information

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TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.

Injection	Dry	Unit	
Drying Temperature	80.0		°C
Drying Time	2.0 - 4.0		hr
Processing (Melt) Temp	160 - 210		°C

NOTE

1. 2.0 mm/min
2. 2.0 mm/min
3. 120°C/h

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