

EPIMIX POM GFR 20 NC

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

Message:
POLYACETAL POM, reinforced with 20% of glass fiber , Standard-flow grad, for injection molding.
POLYACETAL POM , is used in all sectors of industry, compliance with RoHs derivatives.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 20% filler by weight		
Features		Copolymer		
		Good liquidity		
RoHS Compliance		RoHS compliance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.52	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	0.70	--	%	ISO 294-4
Flow direction: 3.00mm	0.40	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	--	%	ISO 62
Ash Content	20	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	83	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7050	6800	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	90.0	80.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	3.0	4.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	6850	6700	MPa	ISO 178
Flexural Stress ² (23°C)	130	115	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	9.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ISO 180/1A
-40°C	5.0	7.0	kJ/m ²	ISO 180/1A
23°C	6.0	8.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	158	--	°C	ISO 75-2/A
Vicat Softening Temperature	160	--	°C	ISO 306/B120
Melting Temperature (DSC)	165	--	°C	ISO 3146
Flammability	Dry	Conditioned	Test Method	
Flame Rating (1.60 mm)	HB	--	UL 94, IEC 60695-11-10, -20	
Additional Information				
干燥 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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