

# EPIMIX POM PTFE 20 NC

Acetal (POM) Copolymer

EPSAN Plastik SAN. ve Tic. A.S.

## Message:

POLYACETAL POM, reinforced with 20% of PTFE , Standard-flow grad, for injection molding.

POLYACETAL POM , is used in all sectors of industry, good chemical resistance, compliance with RoHs derivatives.

This product is available in natural and in colours on request.

General Information				
Filler / Reinforcement	PTFE fiber, 20% filler by weight			
Features	Copolymer Good liquidity Good chemical resistance			
RoHS Compliance	RoHS compliance			
Appearance	Available colors Natural color			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.50	--	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00	--	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.7	--	%	ISO 294-4
Flow direction: 3.00mm	2.0	--	%	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)	80	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2550	2400	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	45.0	35.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	< 15	< 10	%	ISO 527-2/50
Flexural Modulus <sup>1</sup> (23°C)	2450	2300	MPa	ISO 178
Flexural Stress <sup>2</sup> (23°C)	75.0	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	10	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact				ISO 180/1A

-40°C	4.0	6.0	kJ/m <sup>2</sup>	ISO 180/1A
23°C	6.0	9.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature <sup>3</sup> (1.8 MPa, Unannealed)	150	--	°C	ISO 75-2/A
Vicat Softening Temperature	152	--	°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
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#### 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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