

Tenopom® POM B3 HF UV PRTA011 PR312

Acetal (POM) Copolymer

Petropol Industry and Trade of Polymers LTDA

Message:

Polyacetal copolymer with low viscosity in black color and UV resistance, easy processing, suitable for injection parts where it needs to be easily completed.

General Information			
Features	Copolymer		
	Good Processability		
	Good UV Resistance		
	Low Viscosity		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>POM<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	24 to 31	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.8 to 2.0	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2840	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield ²	67.0	MPa	
--	61.0	MPa	
Tensile Elongation (Break)	46	%	ASTM D638
Flexural Modulus	2740	MPa	ASTM D790
Flexural Strength	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	30	J/m	
23°C	50	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.35 mm	160	°C	
1.8 MPa, Unannealed, 6.35 mm	106	°C	
Melting Temperature	170	°C	ASTM D2117
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	180 to 200	°C	
Mold Temperature	70.0 to 80.0	°C	
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		

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