

Tenopom® POM B3 ST PRTA010 PR325 MSP

Acetal (POM) Copolymer
Petropol Industry and Trade of Polymers LTDA

Message:
Polyacetal copolymer natural, super tough, highly impact modified, easily processed and indicated for the injection of parts which require good resistance to fatigue and friction.

General Information			
Additive	Impact Modifier		
Features	Copolymer		
	Fatigue Resistant		
	Good Processability		
	Impact Modified		
	Ultra High Toughness		
Appearance	Natural Color		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>POM<		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 1.6	%	ASTM D955
Water Absorption (Saturation)	0.80	%	ASTM D570
Ash Content	1.4	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1650	MPa	ASTM D638
Tensile Strength (Yield)	43.0	MPa	ASTM D638
Tensile Elongation (Break)	16	%	ASTM D638
Flexural Modulus	1550	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	140	°C	
1.8 MPa, Unannealed	75.0	°C	
Vicat Softening Temperature	160	°C	ASTM D1525 ²
Melting Temperature	166	°C	ASTM D2117
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	160 to 180	°C	

Mold Temperature	70.0 to 80.0	°C
NOTE		
1.	1.0 mm/min	
2.	Rate A (50°C/h), Loading 2 (50 N)	

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