

EnCom POM 0116

Acetal (POM) Homopolymer

EnCom, Inc.

Message:

Homopolymer Acetal (POM)

General Information			
Features	Homopolymer		
Uses	Automotive Applications		
	Business Equipment		
	Sporting Goods		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/1.05 kg)	0.85	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.90 to 1.2	%	
Across Flow : 3.18 mm	1.0 to 1.3	%	
Water Absorption			ASTM D570
24 hr	0.44	%	
Saturation, 23°C	0.85	%	
Equilibrium, 23°C, 50% RH	0.35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1290	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Tensile Elongation (Break)	35	%	ASTM D638
Flexural Modulus	1120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	270	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	125	°C	
1.8 MPa, Unannealed	60.6	°C	

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	185 to 199	°C
Middle Temperature	185 to 199	°C
Front Temperature	185 to 204	°C
Nozzle Temperature	185 to 216	°C
Processing (Melt) Temp	199 to 221	°C
Mold Temperature	71.1 to 98.9	°C

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