

Primocon M90

Acetal (POM) Copolymer

KMI Group, Inc.

Message:

Primocon M90 is an Acetal Copolymer.

General Information			
Features	Copolymer		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.9	%	ISO 294-4
Flow	2.0	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.75	%	ISO 62
Equilibrium, 23°C, 50% RH	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ISO 527-2/1A/1
Tensile Strain (Yield)	10	%	ISO 527-2/1A/5
Tensile Creep Modulus			ISO 899-1
1 hr	2450	MPa	ISO 899-1
1000 hr	1350	MPa	ISO 899-1
Flexural Modulus (23°C)	2550	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1e
-30°C	6.0	kJ/m ²	ISO 179/1e
23°C	6.0	kJ/m ²	ISO 179/1e
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	180	kJ/m ²	ISO 179/1eU
23°C	190	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	5.7	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	101	°C	ISO 75-2/A
Melting Temperature ¹	165	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.2E-4	cm/cm/°C	ISO 11359-2
Lateral	1.2E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity	3.0E+16	ohms	IEC 60093
Volume Resistivity	8.0E+12	ohms·cm	IEC 60093
NOTE			
1.	10°C/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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