

TEPCON® M90 NAT

Acetal (POM) Copolymer

Polyplastics Co., Ltd.

Message:

TEPCON® M90 NAT is a polyoxymethylene (POM) copolymer product. It is available in North America, Europe or Asia Pacific. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E146187-223361		
UL File Number	E146187		
Appearance	Natural color		
Forms	Particle		
Part Marking Code (ISO 11469)	>POM		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	80		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	62.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	35	%	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	95.0	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	1.2E-4	cm/cm/°C	Internal method
Lateral: 23 to 55°C	1.2E-4	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.00 mm)	19	kV/mm	IEC 60243-1
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value		

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Recommended distributors for this material

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

