



Tepcon® M90

Polyplastics Co., Ltd. - Acetal (POM) Copolymer

Tuesday, September 16, 2008

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Part Marking Code (ISO 11469)	• >POM<

ASTM and ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.41 g/cm ³	1.41 g/cm ³	ISO 1183
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	8990 psi	62.0 MPa	ISO 527-2
Nominal Tensile Strain at Break	35 %	35 %	ISO 527-2
Flexural Modulus	363000 psi	2500 MPa	ISO 178
Flexural Strength	12600 psi	87.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	2.86 ft·lb/in ²	6.00 kJ/m ²	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed	203 °F	95.0 °C	ISO 75-2/A
CLTE			ISO 11359-2
Flow, 73 to 131°F (23 to 55°C)	0.000067 in/in/°F	0.00012 cm/cm/°C	
Transverse, 73 to 131°F (23 to 55°C)	0.000067 in/in/°F	0.00012 cm/cm/°C	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.0E+14 ohm·cm	1.0E+14 ohm·cm	IEC 60093
Comparative Tracking Index	< 600 V	< 600 V	IEC 60112
Electric Strength (0.118 in (3.00 mm))	482.60 V/mil	19.00 kV/mm	IEC 60243-1
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating - UL	HB	HB	UL 94
UL File Number	E146187	E146187	

Notes

¹ Typical properties: these are not to be construed as specifications.