

PELPRENE™ EN-16000

TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information

Product Description

Special Grade

General

Material Status	• Commercial: Active		
Features	• Abrasion Resistant • Chemical Resistant	• Gas Barrier • Good Dimensional Stability	• High Hardness
Uses	• Automotive Applications • Automotive Interior Parts	• General Purpose • Industrial Applications	• Sporting Goods
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >TPC-ET<		
Revision Date	• 8/27/2025		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	30	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	1.1	%	
Across Flow : 2.00 mm	1.3	%	
Water Absorption ² (Equilibrium, 23°C, 50% RH)	0.12	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	932	MPa	ISO 527
Tensile Stress			
Yield	47.6	MPa	ISO 37
Break	29.1	MPa	ISO 37
50% Strain	33.9	MPa	ISO 527
Tensile Elongation (Break)	150	%	ISO 37
Flexural Modulus	1190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 48-4
Shore A, 15 sec	99		
Shore D, 15 sec	77		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2
0.45 MPa, Unannealed	78.0	°C	
Melting Temperature	240	°C	Internal Method
CLTE			ISO 11359-2
Flow	5.2E-5	cm/cm/°C	
Transverse	7.4E-5	cm/cm/°C	



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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.8E+15	ohms	IEC 62631-3-2
Volume Resistivity	6.0E+12	ohms·m	IEC 62631-3-1

Processing Information		
Injection		Unit
Drying Temperature	100 to 120	°C
Drying Time	4.0	hr
Rear Temperature	230 to 250	°C
Middle Temperature	250 to 270	°C
Front Temperature	250 to 270	°C
Mold Temperature	20 to 40	°C

- Notes
- ¹ 100×100×2mmt, film gate
- ² 192hr

