

PELPRENE™ E-900BD

TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information

Product Description

Special Grade

General

Material Status	• Commercial: Active		
Features	• High Hardness	• High Viscosity	
Uses	• Automotive Applications • Automotive Interior Parts	• General Purpose • Industrial Applications	• Sporting Goods
Forms	• Pellets		
Processing Method	• Extrusion		
Part Marking Code (ISO 11469)	• >TPC-ET<		
Revision Date	• 8/27/2025		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.6	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	1.4	%	
Across Flow : 2.00 mm	1.4	%	
Water Absorption ² (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1390	MPa	ISO 527
Tensile Stress			
Yield	47.4	MPa	ISO 37
Break	52.1	MPa	ISO 37
50% Strain	25.6	MPa	ISO 527
Tensile Elongation (Break)	440	%	ISO 37
Flexural Modulus	1710	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	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	74		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2
0.45 MPa, Unannealed	100	°C	
Brittleness Temperature	< -65.0	°C	ISO 974
Melting Temperature	222	°C	Internal Method
CLTE			ISO 11359-2
Flow	6.1E-5	cm/cm/°C	
Transverse	7.5E-5	cm/cm/°C	



PELPRENE™ E-900BD
TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.0E+14	ohms	IEC 62631-3-2
Volume Resistivity	8.7E+12	ohms·m	IEC 62631-3-1

Notes

- ¹ 100×100×2mmt, film gate
- ² 192hr

