

PELPRENE™ S-9001
TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information		
Product Description		
Special Grade		
General		
Material Status	• Commercial: Active	
Features	• Heat Aging Resistant	• High Hardness
Uses	• Automotive Applications	• General Purpose
	• Automotive Interior Parts	• Industrial Applications
Forms	• Pellets	
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >TPC-ES<	
Revision Date	• 4/7/2025	

ASTM & ISO Properties			
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.7	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal Method
Flow : 2.00 mm	1.6	%	
Across Flow : 2.00 mm	1.7	%	
Water Absorption ² (Equilibrium, 23°C, 50% RH)	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	907	MPa	ISO 527
Tensile Stress			
Yield	38.0	MPa	ISO 37
50% Strain	29.1	MPa	ISO 527
Tensile Strength (Break)	45.9	MPa	ISO 37
Tensile Elongation (Break)	420	%	ISO 37
Flexural Modulus	877	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.0	kJ/m²	ISO 179
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 48-4
Shore A, 15 sec	99		
Shore D, 15 sec	70		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2
0.45 MPa, Unannealed	130	°C	
Brittleness Temperature	< -65.0	°C	ISO 974
Melting Temperature	222	°C	Internal Method
CLTE			ISO 11359-2
Flow	9.4E-5	cm/cm/°C	
Transverse	1.2E-4	cm/cm/°C	



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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	4.2E+16	ohms	IEC 62631-3-2
Volume Resistivity	3.6E+12	ohms·m	IEC 62631-3-1

Processing Information		
Injection		Unit
Drying Temperature	100 to 120	°C
Drying Time	> 4.0	hr
Rear Temperature	220 to 240	°C
Middle Temperature	230 to 250	°C
Front Temperature	230 to 250	°C
Mold Temperature	20 to 40	°C

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

