

PELPRENE™ P-40H
TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information			
Product Description			
General Grade			
General			
Material Status	• Commercial: Active		
Features	• Low 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	• 4/6/2025		

ASTM & ISO Properties			
Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage ¹			Internal Method
Flow	1.1	%	
Across Flow	0.90	%	
Water Absorption ² (Equilibrium, 23°C, 50% RH)	0.36	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	50.0	MPa	ISO 527
Tensile Strength (Break)	15.9	MPa	ISO 37
Tensile Stress (50% Strain)	5.70	MPa	ISO 527
Tensile Elongation (Break)	930	%	ISO 37
Flexural Modulus	56.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	No Break		ISO 179
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 48-4
Shore A, 15 sec	94		
Shore D, 15 sec	33		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -65.0	°C	ISO 974
Melting Temperature	164	°C	Internal Method
CLTE			ISO 11359-2
Flow	1.7E-4	cm/cm/°C	
Transverse	1.5E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.9E+14	ohms	IEC 62631-3-2
Volume Resistivity	6.7E+9	ohms·m	IEC 62631-3-1



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Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	HB		UL 94

Processing Information			
Injection			Unit
Drying Temperature	100 to 120	°C	
Drying Time	> 4.0	hr	
Rear Temperature	160 to 180	°C	
Middle Temperature	180 to 200	°C	
Front Temperature	180 to 200	°C	
Mold Temperature	20 to 40	°C	

Notes

- ¹ 100×100×2mmt, film gate
- ² 192hr

