

PELPRENE™ P-47D-HW

TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information

Product Description

Special Grade

General

Material Status	• Commercial: Active		
Features	• Fatigue Resistant • High Viscosity	• Medium Hardness • Oil Resistant	
Uses	• Automotive Applications • Automotive Interior Parts	• Constant Velocity Joint Boots • Constant Velocity Joint Boots	• General Purpose • Industrial Applications
Forms	• Pellets		
Processing Method	• Blow Molding		
Part Marking Code (ISO 11469)	• >TPC-ET<		
Revision Date	• 4/7/2025		

ASTM & ISO Properties

Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5	g/10 min	ISO 1133
Water Absorption ¹ (Equilibrium, 23°C, 50% RH)	0.39	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	172	MPa	ISO 527
Tensile Strength (Break)	28.0	MPa	ISO 37
Tensile Stress (50% Strain)	9.10	MPa	ISO 527
Tensile Elongation (Break)	620	%	ISO 37
Flexural Modulus	88.0	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	96		
Shore D, 15 sec	40		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	58.0	°C	ISO 75-2
Brittleness Temperature	< -65.0	°C	ISO 974
Melting Temperature	196	°C	Internal Method
CLTE			ISO 11359-2
Flow	1.5E-4	cm/cm/°C	
Transverse	1.6E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.6E+14	ohms	IEC 62631-3-2
Volume Resistivity	7.1E+8	ohms·m	IEC 62631-3-1



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Processing Information		
Injection		Unit
Drying Temperature	100 to 120	°C
Drying Time	> 4.0	hr

Notes

¹ 192hr

