PELPRENE™ P-75M

TOYOBO MC Corporation - Thermoplastic Copolyester Elastomer

General Information

Product Description			
General Grade			
General			
Material Status	• Commercial: Active		
Features	• Good Adhesion	• 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	• 4/7/2025		

ASTM & ISO Properties

Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.17	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	ISO 1133
Molding Shrinkage [1]			Internal Method
Flow : 2.00 mm	0.50	%	
Across Flow : 2.00 mm	0.20	%	
Water Absorption [2] (Equilibrium, 23°C, 50% RH)	0.31	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	75.0	MPa	ISO 527
Tensile Strength (Break)	31.8	MPa	ISO 37
Tensile Stress (50% Strain)	6.20	MPa	ISO 527
Tensile Elongation (Break)	800	%	ISO 37
Flexural Modulus	77.0	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	42		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -65.0	°C	ISO 974
Melting Temperature	152	°C	Internal Method
CLTE			ISO 11359-2
Flow	7.9E-5	cm/cm/°C	
Transverse	1.3E-4	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.9E+15	ohms	IEC 62631-3-2
Volume Resistivity	3.5E+10	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
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