

PELPRENE™ P55U

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™ P55U is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in North America.

Characteristics include:

Flame Rated

Good Weather Resistance

General Information			
Features	Good Weather Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	0.70	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.45	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A	94		JIS K6301
Shore D	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	30.0	MPa	
50% Strain	9.80	MPa	
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	76.0	MPa	ASTM D790
Compressive Strength (10% Strain)	7.60	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	15.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	113	kN/m	ASTM D624
Compression Set	53	%	JIS K6301
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	< 25.0	°C	ASTM D648
Brittleness Temperature	< -65.0	°C	JIS K6301
Vicat Softening Temperature	155	°C	ASTM D1525
Melting Temperature	182	°C	DSC
CLTE - Flow	1.7E-4	cm/cm/°C	ASTM E831

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	9.0E+12	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	JIS K2111
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Resilience	74	%	JIS K6301

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