

PELPRENE™ S1001

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™S1001 is a thermoplastic polyester elastomer (TPEE) product. It is available in North America.

- Features include:
- flame retardant/rated flame
 - Copolymer
 - good weather resistance
 - Heat resistance

General Information			
Features	Copolymer		
	Good heat aging resistance		
	Good weather resistance		
	General		
Uses	General		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.2	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.0	MPa	ASTM D638
Tensile Elongation (Break)	730	%	ASTM D638
Flexural Modulus	125	MPa	ASTM D790
Compressive Modulus	10.2	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	15.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (50% Strain)	10.8	MPa	ASTM D412
Tear Strength	118	kN/m	ASTM D624
Compression Set	60	%	ASTM D395
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)	68.0	°C	ASTM D648

Brittleness Temperature	-65.0	°C	ASTM D746
Vicat Softening Temperature	172	°C	ASTM D1525
Melting Temperature	200	°C	DSC
CLTE - Flow	1.9E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+12	ohms·cm	ASTM D257
Dielectric Strength	25	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			

Hardness, JIS k6301, A scale: 9610% Compression Modulus, ASTM D695: 10.2 MPaResilience, JIS K6301: 63 %Brittle Point, JIS K6301: < -65 °CCompression Set, JIS K6301: 60 %Coefficient of Linear Thermal Expansion, TMA: 19e-5 1/K

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