

PELPRENE™ S6002

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™ S6002 is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in North America.

Characteristics include:

Flame Rated

Heat Resistant

General Information			
Features	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.7	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A	99		JIS K6301
Shore D	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	46.0	MPa	
50% Strain	27.5	MPa	
Tensile Elongation (Break)	450	%	ASTM D638
Flexural Modulus	568	MPa	ASTM D790
Compressive Strength (10% Strain)	30.8	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	8.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	196	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	130	°C	ASTM D648
Brittleness Temperature	-60.0	°C	JIS K6301
Vicat Softening Temperature	202	°C	ASTM D1525
Melting Temperature	218	°C	DSC
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	5.0E+14	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	JIS K2111
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Resilience	56	%	JIS K6301

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