

PELPRENE™ S9002

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™ S9002 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	1.29	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)	1.8	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.28	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A	99		JIS K6301
Shore D	78		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	52.0	MPa	
50% Strain	44.1	MPa	
Tensile Elongation (Break)	380	%	ASTM D638
Flexural Modulus	911	MPa	ASTM D790
Compressive Strength (10% Strain)	39.2	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	6.00	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	250	kN/m	ASTM D624
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	98	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	146	°C	ASTM D648
Brittleness Temperature	-50.0	°C	JIS K6301
Vicat Softening Temperature	207	°C	ASTM D1525
Melting Temperature	223	°C	DSC
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	7.0E+15	ohms·cm	ASTM D257
Dielectric Strength	30	kV/mm	JIS K2111
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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