PELPRENE™ P90BD

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™P90BD is a thermoplastic polyester elastomer (TPEE) product. It is available in North America.
Features include:
flame retardant/rated flame
high viscosity
Wear-resistant

General Information			
Features	Durability Viscosity, High		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.19	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.1	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	57		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	15.2	MPa	ASTM D638
Tensile Strength (Yield)	31.4	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	162	MPa	ASTM D790
Compressive Modulus	13.3	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	13.0	mg	ASTM D1044
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tear Strength	172	kN/m	ASTM D624
Compression Set	57	%	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)	101	°C	ASTM D648
Brittleness Temperature	-65.0	°C	ASTM D746
Vicat Softening Temperature	180	°C	ASTM D1525
Melting Temperature	203	°C	DSC

CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+13	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			

Hardness, JIS K6301, A scale: 96Resilience, JIS K6301: 65 %Dielectric Strength, JIS K2111: 30 MV/mThe value listed as Compression Set, ASTM D395 was tested according to the JIS K6301 standard.The value listed as Brittle Point, ASTM D746 was tested according to the JIS K6301 standard.Coefficient of Linear Thermal Expansion, TMA: 14e-5 cm/cm/KCompression Modulus, ASTM D695, 10%: 13.3 MPaTensile Modulus, ASTM D638, 50% Modulus: 15.2 MPaThe value listed as Brittle Temp ASTM D746, was tested in accordance with JIS K6301.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China