

PELPRENE™ P50DFR

Thermoplastic Polyester Elastomer

TOYOBO America, Inc.

Message:

PELPRENE™ P50DFR is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

General Information			
UL YellowCard	E51743-242525		
Additive	Flame Retardant		
Features	Flame Retardant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	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)	0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 65% RH)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			
Shore A	96		JIS K6301
Shore D	54		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
--	17.6	MPa	
50% Strain	10.8	MPa	
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	167	MPa	ASTM D790
Compressive Strength (10% Strain)	9.40	MPa	ASTM D695
Taber Abrasion Resistance (1000 Cycles)	17.0	mg	ASTM D1044
Elastomers	Nominal Value	Unit	Test Method
Tear Strength	108	kN/m	ASTM D624
Compression Set	55	%	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)	70.0	°C	ASTM D648
Brittleness Temperature	< -65.0	°C	JIS K6301
Vicat Softening Temperature	170	°C	ASTM D1525

Melting Temperature	215	°C	DSC
CLTE - Flow	1.6E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	6.0E+13	ohms·cm	ASTM D257
Dielectric Strength	15	kV/mm	JIS K2111
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Resilience	65	%	JIS K6301

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