

PELPRENE™ E450B

TPE

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	10	g/10min	ASTM D 1238
Temperature	230	°C	-
Mold Shrinkage, MD	0.017	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	35	MPa	ASTM D 638
Flexural Modulus	1267	MPa	ASTM D 790
Shore D Hardness	78	-	ASTM D 2240
Tear Strength	237	kN/m	ASTM D 624
Taber Abrasion Resistance	5	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	39	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	140	E-6/K	ASTM D 696
Melting Temperature	222	°C	ASTM D 3418
Vicat Temperature	202	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Volume Resistivity	7E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1280	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	4	h	-
Mold temperature	20 - 60	°C	-
Zone 1	220 - 240	°C	-
Zone 2	230 - 250	°C	-
Zone 3	230 - 250	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	4	h	-
Zone 1	220 - 230	°C	-
Zone 2	230 - 240	°C	-
Zone 3	230 - 240	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets