

**PELPRENE™ P55B**

TPE

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	22	g/10min	ASTM D 1238
Temperature	230	°C	-
Mold Shrinkage, MD	0.007	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	29	MPa	ASTM D 638
Flexural Modulus	76	MPa	ASTM D 790
Shore D Hardness	44	-	ASTM D 2240
Tear Strength	113	kN/m	ASTM D 624
Taber Abrasion Resistance	15	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	170	E-6/K	ASTM D 696
Melting Temperature	182	°C	ASTM D 3418
Vicat Temperature	155	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Volume Resistivity	9E12	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1150	kg/m <sup>3</sup>	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	190 - 210	°C	-
Zone 2	200 - 230	°C	-
Zone 3	200 - 230	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 120	°C	-
Pre-drying - Time	4	h	-
Mold temperature	20 - 60	°C	-
Zone 1	190 - 200	°C	-
Zone 2	200 - 220	°C	-
Zone 3	200 - 220	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion, Blow Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets