

PELPRENE™ S1001

TPE

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	230	°C	-
Mold Shrinkage, MD	0.012	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength	30	MPa	ASTM D 638
Flexural Modulus	125	MPa	ASTM D 790
Shore D Hardness	48	-	ASTM D 2240
Tear Strength	118	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
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	190	E-6/K	ASTM D 696
Melting Temperature	200	°C	ASTM D 3418
Vicat Temperature	172	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Volume Resistivity	2E12	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1210	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	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	-
Zone 1	190 - 200	°C	-
Zone 2	200 - 220	°C	-
Zone 3	200 - 220	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific

Delivery form

Pellets