

**PELPRENE™ P46D-01**

TPE

Toyobo Co., Ltd.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>0.5</b>	g/10min	ASTM D 1238
Temperature	<b>230</b>	°C	-
Mold Shrinkage, MD	<b>0.007</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength	<b>31.9</b>	MPa	ASTM D 638
Flexural Modulus	<b>110</b>	MPa	ASTM D 790
Shore D Hardness	<b>46</b>	-	ASTM D 2240
Tear Strength	<b>165</b>	kN/m	ASTM D 624
Taber Abrasion Resistance	<b>10</b>	mg/1000 cycles	ASTM D 1044
Izod Impact notched, 1/8 in	<b>N</b>	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Coefficient of Thermal Expansion, MD	<b>170</b>	E-6/K	ASTM D 696
Melting Temperature	<b>203</b>	°C	ASTM D 3418
Vicat Temperature	<b>153</b>	°C	ASTM D 1525

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Volume Resistivity	<b>4E13</b>	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	<b>1150</b>	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	<b>100 - 120</b>	°C	-
Pre-drying - Time	<b>4</b>	h	-
Mold temperature	<b>20 - 40</b>	°C	-
Zone 1	<b>220 - 230</b>	°C	-
Zone 2	<b>220 - 230</b>	°C	-
Zone 3	<b>220 - 240</b>	°C	-

**Characteristics****Processing**

Blow Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets