

**STAREX PT-0180**

ABS

Lotte Chemical Corporation

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melt flow index, MFI	<b>3.6</b>	g/10min	ISO 1133
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Molding shrinkage, parallel	<b>0.5</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.5</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>3.6</b>	g/10min	ASTM D 1238
Temperature	<b>200</b>	°C	-
Load	<b>5</b>	kg	-
Mold Shrinkage, MD	<b>0.0045</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.0045</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	<b>2200</b>	MPa	ISO 527
Yield stress	<b>42</b>	MPa	ISO 527
Stress at break	<b>35</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>2400</b>	MPa	ISO 178
Flexural strength	<b>75</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>24</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>20</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>R 106</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	<b>2200</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>39</b>	MPa	ASTM D 638
Flexural Modulus	<b>2000</b>	MPa	ASTM D 790
Flexural Strength	<b>60</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 106</b>	-	ASTM D 785
Izod Impact notched, 1/4 in	<b>200</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Vicat softening temperature, B	<b>97</b>	°C	ISO 306
<b>Other properties</b>			
Water absorption	<b>0.3</b>	%	Sim. to ISO 62
Density	<b>1040</b>	kg/m <sup>3</sup>	ISO 1183
Water Absorption, Equilibrium	<b>0.3</b>	%	ASTM D 570
Density	<b>1040</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>85 - 95</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.1</b>	%	-
Melt temperature	<b>210 - 230</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>180 - 200</b>	°C	-
Zone 2	<b>200 - 210</b>	°C	-
Zone 3	<b>210 - 230</b>	°C	-
Nozzle temperature	<b>220 - 240</b>	°C	-
Screw speed	<b>50 - 150</b>	rpm	-
Injection pressure	<b>49 - 150</b>	MPa	-
Back pressure	<b>0.5 - 2</b>	MPa	-

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**Characteristics****Processing**

Injection Molding

**Applications**

Automotive

**Delivery form**

Pellets, Natural Color

**Regional Availability**

North America, Europe, Asia Pacific