

**STAREX SH-0160**

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>8</b>	g/10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</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>8</b>	g/10min	ASTM D 1238
Temperature	<b>220</b>	°C	-
Load	<b>10</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>			
Yield stress	<b>35</b>	MPa	ISO 527
Flexural modulus, 23°C	<b>1800</b>	MPa	ISO 178
Flexural strength	<b>55</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>27</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Rockwell hardness	<b>R 101</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength at Yield	<b>35</b>	MPa	ASTM D 638
Flexural Modulus	<b>1800</b>	MPa	ASTM D 790
Flexural Strength	<b>54</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 101</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>440</b>	J/m	ASTM D 256
Izod Impact notched, 1/4 in	<b>320</b>	J/m	ASTM D 256
<b>Thermal properties</b>			
<b>ISO Data</b>			
Vicat softening temperature, B	<b>99</b>	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Burning behav. at thickness h	<b>HB</b>	class	IEC 60695-11-10
Thickness tested	<b>3.0</b>	mm	-
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 264 psi	<b>90</b>	°C	ASTM D 648
<b>Other properties</b>			
Density	<b>1040</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1040</b>	kg/m <sup>3</sup>	ASTM D 792
<b>Processing Recommendation Injection Molding</b>			
Pre-drying - Temperature	<b>80</b>	°C	-
Pre-drying - Time	<b>2 - 4</b>	h	-
Processing humidity	<b>≤0.05</b>	%	-
Melt temperature	<b>230</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>160 - 180</b>	°C	-
Zone 2	<b>190 - 200</b>	°C	-
Zone 3	<b>210 - 220</b>	°C	-
Nozzle temperature	<b>230</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

#### Regional Availability

North America, Europe, Asia Pacific

#### Delivery form

Pellets, Natural Color