

**STAREX XM-0900**

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>4.5</b>	g/10min	ISO 1133
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
Molding shrinkage, parallel	<b>0.3</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.3</b>	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>4.5</b>	g/10min	ASTM D 1238
Temperature	<b>220</b>	°C	-
Load	<b>10</b>	kg	-
Mold Shrinkage, MD	<b>0.003</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.003</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	<b>1900</b>	MPa	ISO 527
Yield stress	<b>50</b>	MPa	ISO 527
Stress at break	<b>30</b>	MPa	ISO 527
Strain at break	<b>20</b>	%	ISO 527
Flexural modulus, 23°C	<b>2100</b>	MPa	ISO 178
Flexural strength	<b>75</b>	MPa	ISO 178
Charpy notched impact strength, +23°C	<b>6</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	<b>6</b>	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	<b>R 113</b>	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Modulus	<b>2100</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>49</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>38</b>	MPa	ASTM D 638
Elongation at Break	<b>17</b>	%	ASTM D 638
Flexural Modulus	<b>2200</b>	MPa	ASTM D 790
Flexural Strength	<b>69</b>	MPa	ASTM D 790
Rockwell Hardness	<b>R 110</b>	-	ASTM D 785
Izod Impact notched, 1/8 in	<b>79</b>	J/m	ASTM D 256
Izod Impact notched, 1/4 in	<b>69</b>	J/m	ASTM D 256

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	<b>75</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	<b>83</b>	°C	ISO 75-1/-2
Vicat softening temperature, B	<b>98</b>	°C	ISO 306
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>92</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>83</b>	°C	ASTM D 648

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1090</b>	kg/m <sup>3</sup>	ISO 1183
Density	<b>1090</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>85</b>	°C	-
Pre-drying - Time	<b>2 - 3</b>	h	-
Processing humidity	<b>≤0.05</b>	%	-
Melt temperature	<b>240</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-
Zone 1	<b>190 - 200</b>	°C	-
Zone 2	<b>210 - 220</b>	°C	-
Zone 3	<b>230 - 240</b>	°C	-

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Nozzle temperature	<b>240</b>	°C	-
Screw speed	<b>50 - 150</b>	rpm	-
Injection pressure	<b>49 - 250</b>	MPa	-
Back pressure	<b>0.5 - 2</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Pellets, Natural Color