

**STAREX SR-0305**

ABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt flow index, MFI	15	g/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	220	°C	-
Load	10	kg	-
Mold Shrinkage, MD	0.006	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.006	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	45	MPa	ISO 527
Stress at break	33	MPa	ISO 527
Strain at break	15	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	72	MPa	ISO 178
Charpy notched impact strength, +23°C	20	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	23	kJ/m <sup>2</sup>	ISO 180/1A
Rockwell hardness	R 109	-	ISO 2039-2
<b>ASTM Data</b>			
Tensile Strength at Yield	45	MPa	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	64	MPa	ASTM D 790
Rockwell Hardness	R 109	-	ASTM D 785
Izod Impact notched, 1/8 in	240	J/m	ASTM D 256
Izod Impact notched, 1/4 in	230	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Vicat softening temperature, B	100	°C	ISO 306
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	85	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water absorption	0.05	%	Sim. to ISO 62
Density	1050	kg/m <sup>3</sup>	ISO 1183
Density	1050	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	230	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	160 - 180	°C	-
Zone 2	190 - 200	°C	-
Zone 3	210 - 220	°C	-
Nozzle temperature	230	°C	-
Screw speed	50 - 150	rpm	-
Back pressure	0.5 - 2	MPa	-

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**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, Electrical and Electronical

**Delivery form**

Pellets, Natural Color

**Regional Availability**

North America, Europe, Asia Pacific