

STAREX VE-0852

ABS

Lotte Chemical Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	1.6	g/10min	ISO 1133
Temperature	200	°C	-
Load	5	kg	-
Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	1.6	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0045	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Yield stress	34	MPa	ISO 527
Flexural modulus, 23°C	1600	MPa	ISO 178
Flexural strength	50	MPa	ISO 178
Charpy notched impact strength, +23°C	29	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	20	kJ/m ²	ISO 180/1A
Rockwell hardness	R 80	-	ISO 2039-2
ASTM Data			
Tensile Modulus	1500	MPa	ASTM D 638
Tensile Strength at Yield	33	MPa	ASTM D 638
Tensile Strength at Break	28	MPa	ASTM D 638
Elongation at Break	56	%	ASTM D 638
Flexural Modulus	1600	MPa	ASTM D 790
Flexural Strength	47	MPa	ASTM D 790
Rockwell Hardness	R 80	-	ASTM D 785
Izod Impact notched, 1/8 in	440	J/m	ASTM D 256
Izod Impact notched, 1/4 in	280	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	75	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	88	°C	ISO 75-1/-2
Vicat softening temperature, B	87	°C	ISO 306
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	-
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
Thickness tested	2	mm	-
Other properties			
Density	1160	kg/m ³	ISO 1183
Density	1160	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	220	°C	-
Mold temperature	40 - 80	°C	-
Zone 1	160 - 180	°C	-
Zone 2	190 - 200	°C	-
Zone 3	210 - 220	°C	-
Nozzle temperature	220	°C	-
Screw speed	50 - 150	rpm	-
Injection pressure	49 - 150	MPa	-

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Back pressure

0.5 - 2

MPa

-

Characteristics**Processing**

Injection Molding

Applications

Building Construction

Delivery form

Pellets, Natural Color

Regional Availability

North America, Europe, Asia Pacific