

Starex VE-0871

Acrylonitrile Butadiene Styrene

Lotte Chemical Corporation

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Technical Data

Product Description

Starex VE-0871 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Starex VE-0871: Flame Rated.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing (English) • Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)		
UL Yellow Card ²	• E115797-104499478		
Search for UL Yellow Card	• Lotte Chemical Corporation • Starex		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.17 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR)		ASTM D1238 ISO 1133
200°C/5.0 kg	4.0 g/10 min	
220°C/10.0 kg	40 g/10 min	
Molding Shrinkage		ASTM D955
Flow : 3.20 mm	0.30 to 0.60 %	
Across Flow : 3.20 mm	0.30 to 0.60 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield ⁴	42.2 MPa	ASTM D638
Yield	43.0 MPa	ISO 527-2/50
Flexural Modulus		
-- ⁵	2160 MPa	ASTM D790
-- ⁶	2200 MPa	ISO 178
Flexural Strength		
-- ⁵	58.8 MPa	ASTM D790
-- ⁶	65.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	19 kJ/m ²	ISO 179/1eA
Notched Izod Impact		
23°C, 6.35 mm	200 J/m	ASTM D256
23°C ⁷	17 kJ/m ²	ISO 180/1A

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 6.40 mm	81.0 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	77.0 °C	ISO 75-2/A
Vicat Softening Temperature	91.0 °C	ISO 306/B50



Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm		V-0	
2.0 mm	•	5VB	
	•	5VA	

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	80	°C
Hot Air Dryer	80	°C
Drying Time		
Desiccant Dryer	2.0 to 3.0	hr
Hot Air Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	160 to 180	°C
Middle Temperature	190 to 200	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	220	°C
Mold Temperature	40 to 80	°C
Injection Pressure	9.81	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

Injection Notes
 Hot Runner Temperature: 220°C

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- ³ Typical properties: these are not to be construed as specifications.
- ⁴ 5.0 mm/min
- ⁵ 2.8 mm/min
- ⁶ 2.0 mm/min
- ⁷ 4mm

