Starex VH-0810

Acrylonitrile Butadiene Styrene **Lotte Chemical Corporation**



Technical Data

Product Description

Starex VH-0810 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of Starex VH-0810 are:

- Flame Rated
- RoHS Compliant

- Norto Compilant			
General			
Material Status	Commercial: Active		
Literature ¹	 Processing (English) Technical Information - ASTM (English) Technical Information - ISO (English) 		
UL Yellow Card ²	• E115797-219608		
Search for UL Yellow Card	Lotte Chemical CorporationStarex	on	
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
RoHS Compliance	 RoHS Compliant 		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.16 g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.0 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage		
Flow: 3.20 mm	0.28 to 0.34 %	ASTM D955
Across Flow: 3.20 mm	0.30 to 0.37 %	ASTM D955
Across Flow: 2.00 mm	0.30 to 0.37 %	ISO 294-4
Flow: 2.00 mm	0.28 to 0.34 %	ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
4	2100 MPa	ASTM D638
	2300 MPa	ISO 527-2/50
Tensile Strength		
Yield ⁴	39.0 MPa	ASTM D638
Yield	45.0 MPa	ISO 527-2/50
Break ⁴	29.0 MPa	ASTM D638
Break	33.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ⁴	11 %	ASTM D638
Break	11 %	ISO 527-2/50
Flexural Modulus		
5	2200 MPa	ASTM D790
6	2600 MPa	ISO 178
Flexural Strength		
5	60.0 MPa	ASTM D790
6	75.0 MPa	ISO 178



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Impact	Nominal Value Unit	Test Method	
Charpy Notched Impact Strength ⁷ (23°C)	19 kJ/m²	ISO 179/1eA	
Notched Izod Impact			
23°C, 3.18 mm	250 J/m	ASTM D256	
23°C, 6.35 mm	230 J/m	ASTM D256	
23°C ⁷	18 kJ/m²	ISO 180/1A	
Hardness	Nominal Value Unit	Test Method	
Rockwell Hardness			
R-Scale	103	ASTM D785	
R-Scale	108	ISO 2039-2	
Thermal	Nominal Value Unit	Test Method	
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	79.0 °C	ISO 75-2/B	
0.45 MPa, Annealed, 4.00 mm	86.0°C	ISO 75-2/B	
1.8 MPa, Unannealed, 6.40 mm	78.0 °C	ASTM D648	
1.8 MPa, Unannealed, 4.00 mm	70.0 °C	ISO 75-2/A	
1.8 MPa, Annealed, 4.00 mm	81.0 °C	ISO 75-2/A	
Vicat Softening Temperature			
	88.0 °C	ISO 306/B120	
	* 87.0 °C	ISO 306/B50	
Flammability	Nominal Value Unit	Test Method	
Flame Rating		UL 94	
2.5 mm	V-0		
3.0 mm	V-0		
6.0 mm	V-0		
Injection	Nominal Value Unit		
Drying Temperature			
Desiccant Dryer	80 °C	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	160 to 180 °C	
Middle Temperature	190 to 200 °C	190 to 200 °C	
Front Temperature	210 to 220 °C	210 to 220 °C	
Nozzle Temperature	220 °C	220 °C	
Mold Temperature	40 to 80 °C	40 to 80 °C	
Injection Pressure	49.0 to 147 MPa	49.0 to 147 MPa	
Back Pressure	0.490 to 1.96 MPa	0.490 to 1.96 MPa	
Screw Speed	50 to 150 rpm		
Injection Notes			

Hot Runner Temperature: 220°C



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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