

Starex VE-0856 U

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex VE-0856 U is an acrylonitrile butadiene styrene (ABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Starex VE-0856 U's application areas include electrical appliances and commercial/office supplies.
Features include:
flame retardant/rated flame
Flame Retardant

General Information			
UL YellowCard	E115797-219591		
Features	Flame retardancy		
Uses	Electrical appliances		
	Business equipment		

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.16	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.6	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.36 - 0.44	%	ASTM D955
Transverse flow: 3.20mm	0.38 - 0.47	%	ASTM D955
Lateral flow: 3.20mm	0.38 - 0.47	%	ISO 2577
Traffic: 3.20mm	0.36 - 0.44	%	ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	95		ASTM D785
R scale	95		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2/50
Fracture ³	27.0	MPa	ASTM D638
Fracture	28.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	13	%	ASTM D638
Fracture	6.0	%	ISO 527-2/50
Flexural Modulus			

-- ⁵	2000	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	56.0	MPa	ASTM D790
-- ⁸	64.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	23	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	160	J/m	ASTM D256
23°C ¹⁰	21	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	84.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	80.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	72.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.5 mm	V-0		UL 94
	V-0		
2.0 mm	5VB		UL 94
	V-0		
2.5 mm	5VB		UL 94
	V-0		
	5VB		
3.0 mm	5VA		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80	°C	
Hot air dryer	80	°C	
Drying Time			
--	2.0 - 4.0	hr	

Hot air dryer	2.0 - 3.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	160 - 180	°C
Middle Temperature	190 - 200	°C
Front Temperature	210 - 220	°C
Nozzle Temperature	220	°C
Mold Temperature	40 - 80	°C
Injection Pressure	49.0 - 147	MPa
Back Pressure	0.490 - 1.96	MPa
Screw Speed	50 - 150	rpm

NOTE

1. 5.0 mm/min
2. 5.0 mm/min
3. 5.0 mm/min
4. 5.0 mm/min
5. 2.8 mm/min
6. 2.0 mm/min
7. 2.8 mm/min
8. 2.0 mm/min
9. Thickness: 4mm
10. Thickness: 4mm

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