

Starex VH-0810 T

Acrylonitrile Butadiene Styrene
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex VH-0810 T is an acrylonitrile butadiene styrene (ABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. The application fields of Starex VH-0810 T include electrical/electronic applications and electrical appliances.

Features include:
flame retardant/rated flame
Flame Retardant

General Information			
UL YellowCard	E115797-219608		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical appliances		

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.15	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	6.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.23 - 0.28	%	ASTM D955
Transverse flow: 3.20mm	0.25 - 0.31	%	ASTM D955
Lateral flow: 3.20mm	0.25 - 0.31	%	ISO 2577
Traffic: 3.20mm	0.23 - 0.28	%	ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	103		ASTM D785
R scale	103		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2100	MPa	ASTM D638
Tensile Strength			
Yield ²	36.0	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2/50
Fracture ³	30.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	12	%	ASTM D638
Flexural Modulus			
-- ⁵	2200	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	59.0	MPa	ASTM D790
-- ⁸	62.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	270	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
23°C ¹⁰	19	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	70.0	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.5 mm	V-0		UL 94
3.0 mm	V-0		UL 94
6.0 mm	V-0		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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