Starex VH-0815 M

Acrylonitrile Butadiene Styrene

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex VH-0815 M 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-0815 M include electrical/electronic applications and electrical appliances.
Features include:
flame retardant/rated flame
ROHS certification
Flame Retardant

General Information			
UL YellowCard	E115797-219611		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications Electrical appliances		
RoHS Compliance	RoHS compliance		
UL File Number	E115797		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity (Natural)	1.15	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	4.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.31 - 0.59	%	ASTM D955
Transverse flow: 3.20mm	0.31 - 0.59	%	ASTM D955
Lateral flow: 3.20mm	0.31 - 0.59	%	ISO 2577
Traffic: 3.20mm	0.31 - 0.59	%	ISO 2577
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
Class r	105		ASTM D785
R scale	103		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2060	MPa	ASTM D638
--	2270	MPa	ISO 527-2/50
Tensile Strength			
Yield [2]	40.5	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2/50
Fracture [3]	31.5	MPa	ASTM D638
Fracture	34.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture [4]	15	%	ASTM D638

Fracture	3.0	%	ISO 527-2/50
Flexural Modulus			
-- [5]	2180	MPa	ASTM D790
-- [6]	3480	MPa	ISO 178
Flexural Strength			
-- [7]	60.3	MPa	ASTM D790
-- [8]	73.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [9] (23°C)	20	kJ/m²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	200	J/m	ASTM D256
23°C, 6.35 mm	210	J/m	ASTM D256
23°C [10]	19	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	85.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	86.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	78.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	70.4	°C	ISO 75-2/A
	85.5		
Vicat Softening Temperature	85.7	°C	ISO 306/B50
Flammability	**Nominal Value**		**Test Method**
Flame Rating			UL 94
0.8 mm, Black	V-2		UL 94
1.5 mm	V-1		UL 94
	V-0		
2.0 mm	5VB		UL 94
	V-0		
3.0 mm	5VA		UL 94
2.5 mm	5VA		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature			
--	85	°C	
Hot air dryer	80	°C	
Drying Time			

--	2.0 - 4.0	hr
Hot air dryer	2.0 - 3.0	hr
Suggested Max Moisture	< 0.10	%
Rear Temperature	190 - 210	°C
Middle Temperature	210	°C
Front Temperature	210 - 230	°C
Nozzle Temperature	230	°C
Mold Temperature	50 - 70	°C
Injection Pressure	98.1	MPa
Back Pressure	0.981 - 2.45	MPa
Screw Speed	40 - 50	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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