

Starex LD-0955

Polymethyl Methacrylate Acrylic
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex LD-0955 is a polymethyl methacrylate-acrylic acid product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: electrical appliances.

General Information			
UL YellowCard	E115797-102336838		
Features	General		
Uses	Electrical appliances		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.17	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.30	%	ASTM D955
Transverse flow: 3.20mm	0.30	%	ASTM D955
Lateral flow: 3.20mm	0.30	%	ISO 2577
Traffic: 3.20mm	0.30	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	117		ASTM D785
R scale	117		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2500	MPa	ASTM D638
--	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Fracture ³	34.0	MPa	ASTM D638
Fracture	45.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	25	%	ASTM D638
Fracture	10	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2400	MPa	ASTM D790
-- ⁶	2500	MPa	ISO 178
Flexural Strength			
-- ⁷	79.0	MPa	ASTM D790

-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹⁰ (23°C)	30	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
23°C, 3.18 mm	20	J/m	ASTM D256
23°C, 6.35 mm	20	J/m	ASTM D256
23°C ¹¹	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C, 3.18 mm	260	J/m	ASTM D256
23°C, 6.35 mm	250	J/m	ASTM D256
-5°C ¹²	25	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	99.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	80.0	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	79.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	75.0	°C	ISO 75-2/A
Vicat Softening Temperature	97.0	°C	ISO 306/B50
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		
11.	Thickness: 4mm		
12.	Thickness: 4mm		

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