

Starex GR-5035U

Styrene Acrylonitrile

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Starex GR-5035U is a styrene propylene fine (SAN) product, which contains glass fiber reinforced materials. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: architectural applications.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Building materials		
	Architectural application field		

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.34	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.60	%	ISO 2577
Traffic: 3.20mm	0.50 - 0.60	%	ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	123		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9300	MPa	ASTM D638
--	9000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	130	MPa	ASTM D638
Yield	120	MPa	ISO 527-2/50
Fracture ³	120	MPa	ASTM D638
Fracture	118	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	2.0	%	ASTM D638
Fracture	2.0	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	9300	MPa	ASTM D790
-- ⁶	11500	MPa	ISO 178

Flexural Strength			
-- 7	130	MPa	ASTM D790
-- 8	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	6.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	59	J/m	ASTM D256
23°C, 6.35 mm	49	J/m	ASTM D256
23°C ¹⁰	5.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	109	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	110	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	105	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	106	°C	ISO 75-2/A
Vicat Softening Temperature	113	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Yellowness Index (2.50 mm)	30	YI	ASTM D1925
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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