Starex WR-9330I

Acrylonitrile Styrene Acrylate





Technical Data

Product Description	
	lonitrile Styrene Acrylate (ASA) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or
North America. Typical appl	cation: Automotive.
General	
Matarial Ctatus	- Commoraid: Active

Solitoral			
Material Status	Commercial: Active		
Literature ¹	Processing (English)Technical Information - ASTechnical Information - ISO	` ` ` '	
UL Yellow Card ²	• E115797-219514		
Search for UL Yellow Card	LOTTE ADVANCED MATIStarex	ERIALS CO., LTD.	
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America

Automotive Specifications	GM QK 000242 Type A Color: Natural	• HYUNDAI MS225-22 T2	 RENAULT SM 200-01 AAS- IB2-2

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.07 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	5.0 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage		
Flow: 3.20 mm	0.40 to 0.70 %	ASTM D955
Across Flow: 3.20 mm	0.40 to 0.70 %	ASTM D955
Across Flow: 2.00 mm	0.40 to 0.70 %	ISO 294-4
Flow: 2.00 mm	0.40 to 0.70 %	ISO 294-4
Mechanical Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		,
4	2100 MPa	ASTM D638
	2400 MPa	ISO 527-2/50
Tensile Strength		
Yield ⁴	47.0 MPa	ASTM D638
Yield	52.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ⁴	17 %	ASTM D638
Break	11 %	ISO 527-2/50
Flexural Modulus		
5	2300 MPa	ASTM D790
6	2400 MPa	ISO 178
Flexural Strength		
5	70.0 MPa	ASTM D790
6	80.0 MPa	ISO 178
mpact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	10 kJ/m²	ISO 179/1eA
Notched Izod Impact		
23°C, 3.18 mm	140 J/m	ASTM D256
23°C ⁷	9,0 kJ/m²	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		
R-Scale	107	ASTM D785
R-Scale	108	ISO 2039-2

Form No. TDS-60702-en

LOTTE ADVANCED MATERIALS CO., LTD.



Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed, 4.00 mm	97.0 °C	ISO 75-2/B
0.45 MPa, Annealed, 4.00 mm	107 °C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	82.0 °C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	103 °C	ISO 75-2/A
Vicat Softening Temperature	104 °C	ISO 306/B50
njection	Nominal Value Unit	
Drying Temperature		
Desiccant Dryer	75 to 85 °C	
Hot Air Dryer	75 to 85 °C	
Drying Time		
Desiccant Dryer	2.0 to 4.0 hr	
Hot Air Dryer	2.0 to 4.0 hr	
Suggested Max Moisture	0.050 %	
ear Temperature 190 to 205 °C		
Middle Temperature	205 to 225 °C	
Front Temperature	225 to 245 °C	
Nozzle Temperature	245 °C	
Mold Temperature	50 to 70 °C	
Injection Pressure	98.1 MPa	
Back Pressure	0.981 to 1.96 MPa	
Screw Speed	50 to 90 rpm	
Injection Notes		

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

³ Typical properties: these are not to be construed as specifications.

⁴ 5.0 mm/min

⁵ 2.8 mm/min

⁶ 2.0 mm/min

⁷ 4mm

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.