

Lotte Chemical Corporation - Acrylonitrile Butadiene Styrene

Wednesday, March 9, 2022

General Information									
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Material Status	Commercial: Active								
Availability	 Africa & Middle East 	Europe		North America					
Availability	 Asia Pacific 	 Latin America 	Latin America						
Automotive Specifications	GM QK 002032 Color: Natural	 SUZUKI ABS-HN 							
ASTM & ISO Properties ¹									
Physical		Nominal Value	Unit	Test Method					
Density / Specific Gravity (Natural)		1.06		ASTM D792					
Density (Natural)		1.06	g/cm³	ISO 1183					
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg		20	g/10 min	ASTM D1238					
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg		20	g/10 min	ISO 1133					
Molding Shrinkage - Flow (0.126 in)		4.0E-3 to 7.0E-3	in/in	ASTM D955					
Molding Shrinkage - Across Flow (0.126 in)		4.0E-3 to 7.0E-3	in/in	ASTM D955					
Molding Shrinkage				ISO 294-4					
Across Flow : 0.0787 in		0.40 to 0.70	%						
Flow : 0.0787 in		0.40 to 0.70	%						
Water Absorption (Saturation, 73°F)		0.30	%	ASTM D570					
Water Absorption (Saturation, 73°F)		0.30	%	ISO 62					
lechanical		Nominal Value	Unit	Test Method					
Tensile Modulus		348000	psi	ISO 527-1/50					
Tensile Strength ² (Yield)		5660	psi	ASTM D638					
Tensile Stress (Yield)		7250	psi	ISO 527-2/50					
Tensile Stress (Break)		5220	psi	ISO 527-2/50					
Tensile Elongation ² (Break)		35	%	ASTM D638					
Tensile Strain (Break)		35	%	ISO 527-2/50					
Flexural Modulus ³	CHEVII	305000	psi	ASTM D790					
Flexural Modulus ⁴		377000	psi	ISO 178					
Flexural Strength ³		9140	psi	ASTM D790					
Flexural Stress ⁴		11300	psi	ISO 178					
mpact		Nominal Value	Unit	Test Method					
Charpy Notched Impact Strength ⁵ (73°F)		9.5	ft·lb/in²	ISO 179/1eA					
Notched Izod Impact (73°F, 0.250 in)		2.8	ft-lb/in	ASTM D256					
Notched Izod Impact Strength ⁵ (73°F)		9.5	ft·lb/in²	ISO 180/1A					
lardness		Nominal Value	Unit	Test Method					
Rockwell Hardness (R-Scale)		109		ASTM D785					
Rockwell Hardness (R-Scale)		109		ISO 2039-2					



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Starex SR-0310FM

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hermal	Nominal Value U	Jnit	Test Method
Deflection Temperature Under Load			ISO 75-2/B
66 psi, Unannealed, 0.157 in	207 °F	F	
Deflection Temperature Under Load			ISO 75-2/B
66 psi, Annealed, 0.157 in	221 °F	F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.126 in	194 °F	F	
264 psi, Unannealed, 0.252 in	194 °F	F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed, 0.157 in	172 °F	F	
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Annealed, 0.157 in	214 °F	F	
Vicat Softening Temperature			
	223 °F	F	ISO 306/B120
	217 °F	F	ISO 306/B50

Processing Information

njection	Nominal Value Unit
Drying Temperature	
Desiccant Dryer	194 °F
Hot Air Dryer	194 °F
Drying Time	
Desiccant Dryer	2.0 to 3.0 hr
Hot Air Dryer	3.0 to 4.0 hr
Suggested Max Moisture	< 0.10 %
Rear Temperature	374 to 401 °F
Middle Temperature	401 to 437 °F
Front Temperature	437 to 473 °F
Nozzle Temperature	446 to 500 °F
Mold Temperature	104 to 176 °F
Injection Pressure	7110 to 21300 psi
Back Pressure	71.1 to 284 psi
Screw Speed	50 to 150 rpm
njection Notes	TEIVIIGAL

Hot Runner Temperature: 220 to 230°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.20 in/min			
³ 0.11 in/min			
⁴ 0.079 in/min			
-			

⁵ 4mm



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