

Starex HF-0690 M

Lotte Chemical Corporation - Acrylonitrile Butadiene Styrene

General Information

General

Uses • Appliances

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity (Natural)	1.04		ASTM D792
Density (Natural)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.5	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	8.5	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ²	334000	psi	ASTM D638
Tensile Modulus	348000	psi	ISO 527-1/50
Tensile Strength ² (Yield)	5690	psi	ASTM D638
Tensile Stress (Yield)	5800	psi	ISO 527-2/50
Tensile Strength ² (Break)	4690	psi	ASTM D638
Tensile Stress (Break)	4640	psi	ISO 527-2/50
Tensile Elongation ² (Break)	20	%	ASTM D638
Tensile Strain (Break)	25	%	ISO 527-2/50
Flexural Modulus ³	305000	psi	ASTM D790
Flexural Modulus ⁴	305000	psi	ISO 178
Flexural Strength ³	8250	psi	ASTM D790
Flexural Stress ⁴	8410	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	9.0	ft·lb/in ²	ISO 179/1eA
Notched Izod Impact (73°F, 0.250 in)	3.6	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	104		ASTM D785
Rockwell Hardness (R-Scale)	104		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, 0.252 in	194	°F	ASTM D648
Deflection Temperature Under Load 66 psi, Unannealed, 0.157 in	183	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	180	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed, 0.157 in	163	°F	ISO 75-2/A
Vicat Softening Temperature	201	°F	ISO 306/B50

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
Desiccant Dryer	176	°F
Hot Air Dryer	176	°F
Drying Time		
Desiccant Dryer	2.0 to 3.0	hr
Hot Air Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	320 to 356	°F
Middle Temperature	374 to 392	°F
Front Temperature	410 to 428	°F
Nozzle Temperature	446	°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

Injection Notes

Hot Runner Temperature: 230°C