

ResMart Ultra ABS HI LF

Acrylonitrile Butadiene Styrene

ResMart

Message:

High impact, low flow ABS

General Information			
Features	Impact resistance, high		
	Low liquidity		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	3.7	g/10 min	ASTM D1238
220°C/10.0 kg	5.4	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/50
Tensile Strength (Yield)	39.0	MPa	ASTM D638
Tensile Elongation (Yield)	50	%	ASTM D638
Flexural Modulus			
--	2000	MPa	ASTM D790
--	2200	MPa	ISO 178
Flexural Strength			
--	56.0	MPa	ASTM D790
--	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	36	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	430	J/m	ASTM D256
23°C, 6.35 mm	360	J/m	ASTM D256
23°C	34	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	92.2	°C	ISO 75-2/B
1.8 MPa, not annealed	88.9	°C	ASTM D648
Vicat Softening Temperature	97.2 - 98.9	°C	ISO 306/B50
Flammability	Nominal Value		Test Method

Flame Rating (1.50 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	116 - 121	°C
Drying Time - Desiccant Dryer	2.0 - 3.0	hr
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	182 - 218	°C
Injection instructions		
Dew Point: -25°F		

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