

ResMart Ultra HIPS 5

High Impact Polystyrene

ResMart

Message:

General Purpose High Impact Polystyrene

General Information			
Features	General		
Uses	General		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	32.4	MPa	ASTM D638
Flexural Modulus	2170	MPa	ASTM D790
Flexural Strength	47.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	76.7	°C	
Drying Time - Desiccant Dryer	2.0	hr	
Suggested Max Moisture	0.10	%	
Processing (Melt) Temp	210 - 246	°C	
Mold Temperature	51.7 - 68.3	°C	
Injection Pressure	68.9 - 96.5	MPa	

Injection instructions

Dew Point: 0°F

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