Novodur® H701

Acrylonitrile Butadiene Styrene

Styrolution

Message:

Novodur H701 is an injection molding grade of ABS with heat resistance and high impact strength.

General Information			
Features	Good Flow High Heat Resistance High Impact Resistance		
Uses	Appliances Automotive Applications Electrical/Electronic Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.04	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	8.00	cm³/10min	ISO 1133
Molding Shrinkage	0.50 to 0.80	%	ISO 294-4
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	95.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	41.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	2.7	%	
Break, 23°C	> 15	%	
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	65.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C	13	kJ/m²	
23°C	24	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	120	kJ/m²	
23°C	180	kJ/m²	
Notched Izod Impact Strength			ISO 180/A

-30°C	12	kJ/m²	
23°C	24	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Annealed	105	°C	ISO 75-2/B
1.8 MPa, Annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	103	°C	ISO 306/B50
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength [1] (1.50 mm)	33	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	2.90		
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	9.0E-3		
Comparative Tracking Index	600	V	IEC 60112
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	240	°C	
Mold Temperature	70.0	°C	
Injection Velocity	240	mm/sec	
NOTE			
1.	Short Time		

Recommended distributors for this material

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