

Novodur® H801

Acrylonitrile Butadiene Styrene
Styrolution

Message:

Novodur H801 is a high heat injection molding grade with high impact strength and reduced emission.

General Information			
Features	High Heat Resistance		
	High Impact Resistance		
	Low Emissions		
Uses	Automotive Applications		
	Automotive Interior Trim		
	Handles		
	Seats		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	9.00	cm³/10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	105	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	49.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	3.0	%	
Break, 23°C	> 15	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	12	kJ/m²	
23°C	30	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	160	kJ/m²	
23°C	220	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Annealed	106	°C	ISO 75-2/B
1.8 MPa, Annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	105	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength ¹ (1.50 mm)	38	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.10		
1 MHz	3.00		
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

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