

Novodur® HH-106

Acrylonitrile Butadiene Styrene
Styrolution

Message:

Novodur HH-106 is a high heat injection molding grade providing a balanced property profile.

General Information			
UL YellowCard	E108538-508116		
Features	High Heat Resistance		
Uses	Automotive Applications		
	Housings		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	7.00	cm³/10min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	102	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	51.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.0	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	9.0	%	ISO 527-2
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress	72.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	7.0	kJ/m²	
23°C	17	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	100	kJ/m²	
23°C	190	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	111	°C	ISO 75-2/B
1.8 MPa, Annealed	106	°C	ISO 75-2/A

Vicat Softening Temperature			
--	115	°C	ISO 306/A50
--	106	°C	ISO 306/B50
CLTE - Flow	9.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Maximum Service Temperature	85	°C	
Injection Velocity	200	mm/sec	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength ¹ (1.50 mm)	39	kV/mm	IEC 60243-1
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	230 to 270	°C	
Mold Temperature	40.0 to 60.0	°C	
NOTE			
1.	Short Time		

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