

# Novodur HH-112

Acrylonitrile Butadiene Styrene (ABS)



Driving Success. Together.

## Technical Datasheet

### DESCRIPTION

Novodur® HH-112 is a high heat injection molding grade. It provides extraordinary heat resistance combined with enhanced stiffness.

### FEATURES

- Very high heat resistance
- High stiffness

### APPLICATIONS

- Automotive rear lamp housings
- Glove box caps

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	6
<b>Mechanical Properties</b>			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m <sup>2</sup>	12
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m <sup>2</sup>	5
Charpy Unnotched, 23° C	ISO 179	kJ/m <sup>2</sup>	140
Charpy Unnotched, -30° C	ISO 179	kJ/m <sup>2</sup>	80
Tensile Stress at Yield, 23° C	ISO 527	MPa	58
Tensile Strain at Yield, 23° C	ISO 527	%	3.1
Tensile Modulus	ISO 527	MPa	2700
Nominal Strain at Break, 23 °C	ISO 527	%	8
Flexural Strength	ISO 178	MPa	81
Flexural Modulus	ISO 178	MPa	2700
Hardness, Ball Indentation	ISO 2039-1	MPa	114
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50°C/h, 50N)	ISO 306	°C	112
Vicat Softening Temperature, VST/A/50 (50°C/h, 10N)	ISO 306	°C	118
Heat Deflection Temperature A; (annealed, 1.8 MPa)	ISO 75	°C	109
Heat Deflection Temperature B; (annealed, 0.45 MPa)	ISO 75	°C	113
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	90

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Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
<b>Electrical Properties</b>			
Dielectric Strength, Short Time, 1.5 mm	IEC 60243-1	kV/mm	41
Volume Resistivity	IEC 60093	Ohm*m	1E13
Comparative Tracking Index	IEC 60112	V	600
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1050
Moisture Absorption, Equilibrium 23°C/50% RH	ISO 62	%	0.25
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	30 - 80
Injection Velocity	ISO 294	mm/s	200
Drying Temperature		°C	80
Drying Time		h	2 - 4
Max Service Temperature		°C	90