

Novodur HH-106

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

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

FEATURES

- High heat resistance

APPLICATIONS

- Center consoles
- Radiator grills
- Mirror housings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	7
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	17
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m ²	7
Charpy Unnotched, 23° C	ISO 179	kJ/m ²	190
Charpy Unnotched, -30° C	ISO 179	kJ/m ²	100
Tensile Stress at Yield, 23° C	ISO 527	MPa	51
Tensile Strain at Yield, 23° C	ISO 527	%	3
Tensile Modulus	ISO 527	MPa	2400
Nominal Strain at Break, 23 °C	ISO 527	%	9
Flexural Strength	ISO 178	MPa	72
Flexural Modulus	ISO 178	MPa	2400
Hardness, Ball Indentation	ISO 2039-1	MPa	102
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50°C/h)	ISO 306	°C	106
Vicat Softening Temperature, VST/A/50 (10N, 50°C/h)	ISO 306	°C	115
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	99
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	107

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Property, Test Condition	Standard	Unit	Values
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	90
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Strength, Short Time, 1.5 mm	IEC 60243-1	kV/mm	39
Volume Resistivity	IEC 60093	Ohm*m	1E13
Comparative Tracking Index	IEC 60112	V	600
Other Properties			
Density	ISO 1183	kg/m ³	1050
Moisture Absorption, Equilibrium 23°C/50% RH	ISO 62	%	0.25
Processing			
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	85