

# Novodur H950

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Novodur® H950 is a very high heat injection molding grade with high gloss surface appearance

### FEATURES

- Very high heat resistance
- High gloss

### APPLICATIONS

- Painted exterior automotive mirrors
- Rear lamp automotive housings
- Automotive parts

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	4.5
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	17
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	8
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	17
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	7
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	170
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	130
Tensile Stress at Yield, 23 °C	ISO 527	MPa	50
Tensile Strain at Yield, 23 °C	ISO 527	%	2.7
Tensile Modulus	ISO 527	MPa	2600
Flexural Strength, 23 °C	ISO 178	MPa	80
Flexural Modulus, 23 °C	ISO 178	MPa	2600
Hardness, Ball Indentation	ISO 2039-1	MPa	115
<b>Thermal Properties</b>			
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	116
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	114
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	101

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	108
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	70
<b>Electrical Properties</b>			
Dissipation Factor (100 Hz)	IEC 62631-2-1	10 <sup>-4</sup>	60
Dissipation Factor (1 MHz)	IEC 62631-2-1	10 <sup>-4</sup>	100
Dielectric Strength, Short Time, 1.0 mm	IEC 60243-1	kV/mm	37
Relative Permittivity (100 Hz)	IEC 62631-2-1	-	3.2
Relative Permittivity (1 MHz)	IEC 62631-2-1	-	3
Comparative Tracking Index	IEC 60112	V	600
Volume Resistivity	IEC 62631-3-1	Ohm*m	>10 <sup>13</sup>
Surface Resistivity	IEC 62631-3-1	Ohm	>10 <sup>15</sup>
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1050
UL94 rating at 1.5 mm thickness	IEC 60695-11-10	-	HB
Burning rate (US-FMVSS), 2.0 mm	ISO 3795	mm/min	55
Glow wire test (GWFI), 2.0 mm	IEC 60695-2-12	°C	700
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.5 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Injection Velocity	ISO 294	mm/s	240
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4