

## DESCRIPTION

Novodur® HH-106 G1 is a 4% glass fiber reinforced ABS for injection moulding with enhanced heat resistance.

## FEATURES

- High stiffness
- High heat resistance

## APPLICATIONS

- Inserts for support of high gloss exterior pillars

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	5
<b>Mechanical Properties</b>			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m <sup>2</sup>	12
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m <sup>2</sup>	6
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m <sup>2</sup>	190
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m <sup>2</sup>	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	3000
Flexural Strength	-	-	72
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	107
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	108
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	99
Heat Deflection Temperature, B (0.45 MPa)	ISO 75	°C	107
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1070
<b>Processing</b>			

Property, Test Condition	Standard	Unit	Values
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4

Typical values for uncolored products

## SUPPLY FORM

Novodur® is delivered in the form of cylindrical or spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm<sup>3</sup>. Values may differ for special grades. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Novodur pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Novodur absorbs moisture, but this can be removed by drying.

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