INEOS STYROLUTION

Novodur HH-106 G2

Please Select

TECHNICAL DATASHEET

DESCRIPTION

Novodur® acrylonitrile butadiene styrene (ABS) polymers feature high surface quality and good impact strength. Novodur® HH-106 G2 is a 8% glass fiber reinforced ABS for injection moulding with enhanced heat resistance

FEATURES

- High stiffness
- High heat resistance
- Reinforcement

APPLICATIONS

- Inserts for support of high gloss exterior pillars

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	4
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	6
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	4
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	24
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	20
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	kJ/m²	6
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	4
Tensile Modulus	ISO 527	MPa	3600
Tensile Stress at Yield, 23 °C	ISO 527	MPa	58
Tensile Strain at Yield, 23 °C	ISO 527	%	2.8
Tensile Stress at Break, 23 °C	ISO 527	MPa	58
Nominal Strain at Break, 23 °C	ISO 527	%	3
Flexural Modulus, 23 °C	ISO 178	MPa	3500
Flexural Strength, 23 °C	ISO 178	MPa	97
Hardness, Ball Indentation	ISO 2039-1	MPa	106
Thermal Properties			

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Property, Test Condition	Standard	Unit	Values
Vicat Softening Temperature, VST/A/120 (10N, 120 °C/h)	ISO 306	°C	109
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	107
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	108
Other Properties			
Density	ISO 1183	kg/m³	1100
Glass Fibre content	-	%	8
Burning rate (US-FMVSS), 2.0 mm	ISO 3795	mm/min	30
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.6
Mold Temperature Range	ISO 294	°C	240 - 260
Melt Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	4