Novodur® HH-112

ABS INEOS Styrolution

Product Texts

Novodur® HH-112 acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® HH-112 is a high heat injection molding grade. It provides extraordinary heat resistance combined with enhanced stiffness.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**5.5**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
[C] Density of melt	**944**	kg/m³	-
[C] Thermal conductivity of melt	**0.193**	W/(m K)	-
[C] Spec. heat capacity of melt	**2270**	J/(kg K)	-
[C] Ejection temperature	**102**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2700**	MPa	ISO 527
[C] Yield stress	**58**	MPa	ISO 527
[C] Yield strain	**3.1**	%	ISO 527
[C] Nominal strain at break	**8**	%	ISO 527
[C] Charpy impact strength, +23°C	**140**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**80**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**11**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**6**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**102**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**110**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**111**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**90**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Electric strength	**41**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Humidity absorption	**0.25**	%	Sim. to ISO 62
[C] Density	**1050**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**230 - 270**	°C	-
Mold temperature	**30 - 60**	°C	-

Characteristics

Processing
Injection Molding

Special Characteristics
Platable

Delivery form
Pellets

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
PREPROCESSING
Pre-drying, Temperature: 80°C
Pre-drying, Time: 2 - 4h
PROCESSING
Melt temperature, range: 230 - 260°C
Mold temperature, range: 60 - 80°C