

Product Texts

Novodur® H701 acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® H701 is an ABS injection molding grade with a good balance of heat resistance, impact strength and flowability. Furthermore, it is of low emission, i.e. suitable to produce parts which fulfill interior emission requirements of the automotive OEMs.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	8	cm ³ /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
^[C] Density of melt	936	kg/m ³	-
^[C] Thermal conductivity of melt	0.18	W/(m K)	-
^[C] Spec. heat capacity of melt	2340	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100	MPa	ISO 527
^[C] Yield stress	41	MPa	ISO 527
^[C] Yield strain	2.7	%	ISO 527
^[C] Nominal strain at break	17	%	ISO 527
^[C] Charpy impact strength, +23°C	180	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	120	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	22	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Temp. of deflection under load, 1.80 MPa	99	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	105	°C	ISO 306
^[C] Coeff. of linear therm. expansion, parallel	90	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Electric strength	33	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1040	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Regional Availability

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