

Novodur® P2HGV acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® P2HGV is a 16.5% glass fiber reinforced injection molding grade which provides high rigidity and enhanced heat resistance.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	3	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	5500	MPa	ISO 527
Stress at Break	74	MPa	ISO 527
Strain at Break	2	%	ISO 527
Impact Strength (Charpy), +23°C	18	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	20	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	6	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	5	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	102	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	106	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	105	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	40	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	HB	class	UL 94
Thickness tested	1.5	mm	-
UL recognition	yes	-	-

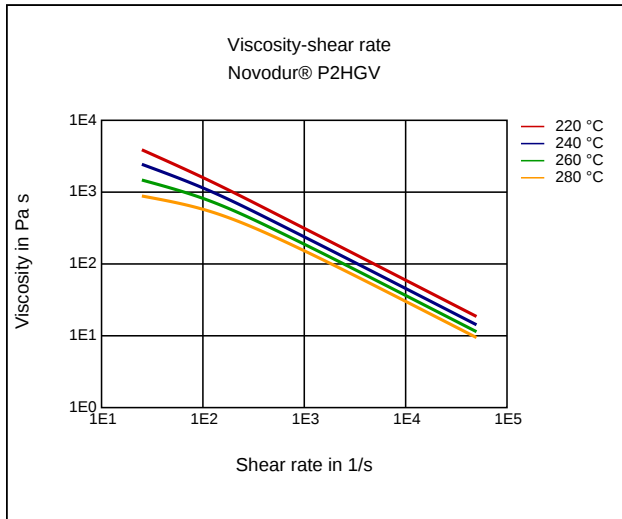
Electrical Properties	Value	Unit	Test Standard
ISO Data			
Electric Strength	32	kV/mm	IEC 60243-1
Comparative tracking index	575	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1160	kg/m³	ISO 1183

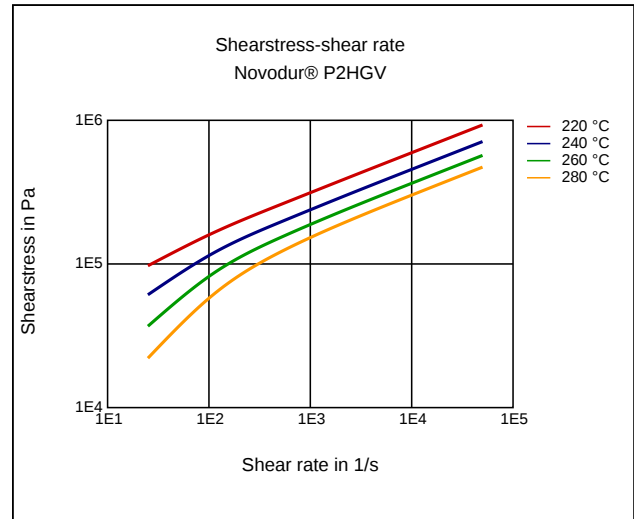
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Thermal Conductivity of Melt	0.144	W/(m K)	-
Spec. heat capacity of melt	1640	J/(kg K)	-
Ejection temperature	95	°C	-

Diagrams

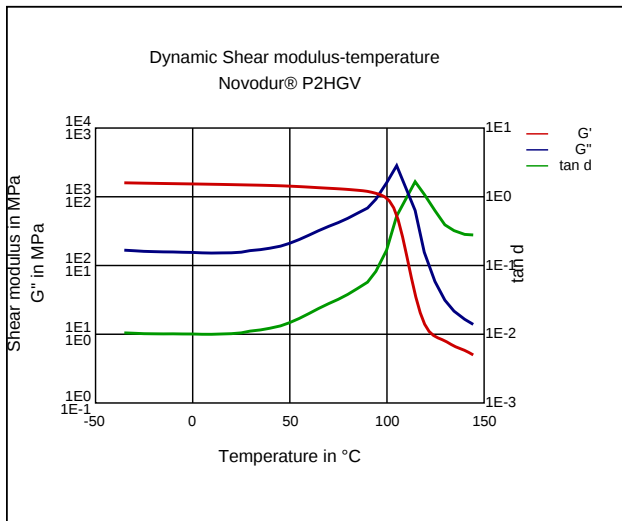
Viscosity-shear rate



Shearstress-shear rate



Dynamic Shear modulus-temperature



Characteristics

Processing

Injection Molding

Delivery form

Pellets

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

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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