INEOS Styrolution

ALBIS

Novodur® H801

(ABS+PC) INEOS Styrolution

Novodur® H801 acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® H801 is a PC modified high heat injection molding grade with excellent flowability and high impact strength. Furthermore, it is of low emission, i.e. suitable to produce parts which fulfill interior emission requirements of the automotive OEMs.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	10.5	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	49	MPa	ISO 527
Yield strain	3	%	ISO 527
Nominal strain at break	20	%	ISO 527
Impact Strength (Charpy), +23°C	220	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	160	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	35	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	14	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	99	°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	106	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	80	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	-	-
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	3.0	mm	-
UL recognition	yes	-	-

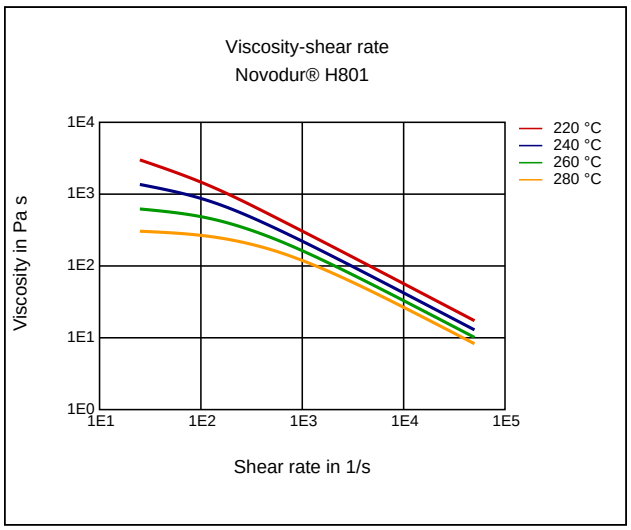
Electrical Properties	Value	Unit	Test Standard
ISO Data			
Electric Strength	38	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1070	kg/m³	ISO 1183

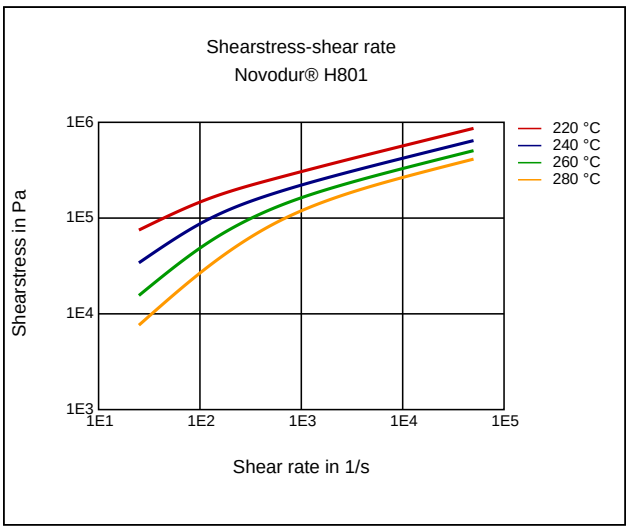
Rheological calculation properties	Value	Unit	Test Standard
ISO Data			
Density of melt	970	kg/m³	-
Thermal Conductivity of Melt	0.229	W/(m K)	-
Spec. heat capacity of melt	2190	J/(kg K)	-

Diagrams

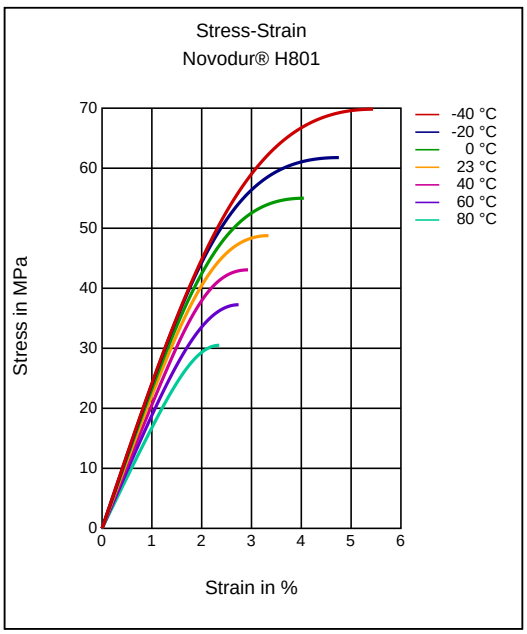
Viscosity-shear rate



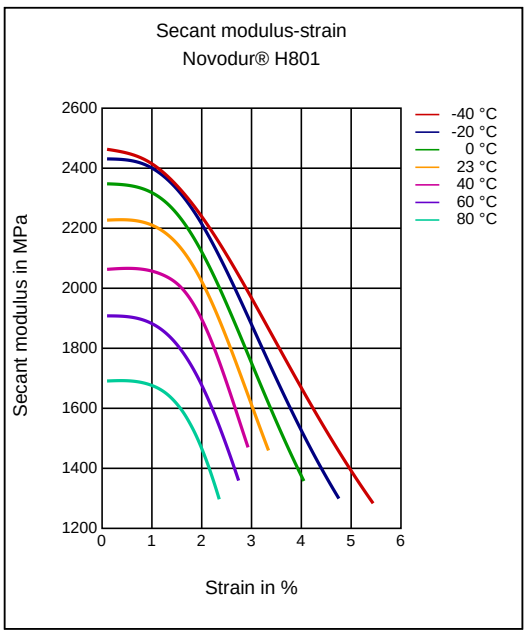
Shearstress-shear rate



Stress-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Features

Low Emission

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