

Product Texts

Novodur® Ultra 4140PG acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® Ultra 4140PG is a PC modified plating grade combining high heat resistance and excellent impact strength with the unique surface properties of a Novodur® ABS material.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	13.5	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
^[C] Density of melt	972	kg/m ³	-
^[C] Thermal conductivity of melt	0.232	W/(m K)	-
^[C] Spec. heat capacity of melt	2330	J/(kg K)	-
^[C] Ejection temperature	94	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100	MPa	ISO 527
^[C] Yield stress	46	MPa	ISO 527
^[C] Yield strain	3.5	%	ISO 527
^[C] Nominal strain at break	26	%	ISO 527
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	41	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	33	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	108	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	106	°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	37	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1070	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Platable

Delivery form

Pellets

Regional Availability

Europe, 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