

Product Texts

Novodur® Ultra 4255 acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® Ultra 4255 is PC modified injection molding grade combining very high impact strength at room as well as at low temperature, 100 % ductility at -30 °C, high heat resistance and a best in class 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	17	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-
^[C] Density of melt	966	kg/m ³	-
^[C] Thermal conductivity of melt	0.211	W/(m K)	-
^[C] Spec. heat capacity of melt	2250	J/(kg K)	-
^[C] Ejection temperature	101	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	2100	MPa	ISO 527
^[C] Yield stress	47	MPa	ISO 527
^[C] Yield strain	4.1	%	ISO 527
^[C] Nominal strain at break	>50	%	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	55	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	55	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	103	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	116	°C	ISO 75-1/-2
^[C] Vicat softening temperature, B	110	°C	ISO 306
^[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	35	kV/mm	IEC 60243-1
^[C] Comparative tracking index	275	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Density	1100	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

Low Emission

Delivery form

Pellets

Regional Availability

North America, Europe, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING

Pre-drying, Temperature: 80 - 90°C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 250 - 270°C

Mold temperature, range: 60 - 80°C