

**Novodur® Ultra 4255**  
 (ABS+PC)

INEOS Styrolution

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.

Rheological properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	17	cm³/10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2100	MPa	ISO 527
Yield stress	47	MPa	ISO 527
Yield strain	4.1	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	55	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	55	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load (1.80 MPa)	103	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	116	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	110	°C	ISO 306
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
<b>ISO Data</b>			
Electric Strength	35	kV/mm	IEC 60243-1
Comparative tracking index	275	-	IEC 60112

Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1100	kg/m³	ISO 1183

Rheological calculation properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density of melt	966	kg/m³	-
Thermal Conductivity of Melt	0.211	W/(m K)	-
Spec. heat capacity of melt	2250	J/(kg K)	-
Ejection temperature	101	°C	-

**Characteristics**
**Processing**

Injection Molding

**Features**

Low Emission

**Delivery form**

Pellets

**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

**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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