

Novodur 580

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur580 is an injection molding grade with very high impact strength.

FEATURES

- Good processability
- High impact strength

APPLICATIONS

- Blow molding
- Sheet application
- Rear spoiler
- Helmet
- Toys, Sport & Leisure

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	6
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	30
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	12
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	30
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	12
Tensile Stress at Yield, 23 °C	ISO 527	MPa	40
Tensile Modulus	ISO 527	MPa	1800
Tensile Strain at Break, 23 °C	ISO 527	%	10
Flexural Strength, 23 °C	ISO 178	MPa	60
Flexural Modulus, 23 °C	ISO 178	MPa	1800
Thermal Properties			
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	95
Heat Deflection Temperature, B (0.45 MPa)	ISO 75	°C	91
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	95
Other Properties			

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Property, Test Condition	Standard	Unit	Values
Density	ISO 1183	kg/m ³	1.04
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.6
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.
Please consult our local sales or technical representatives for details.

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.