

Novodur 433

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur 433 is the next generation mass/emulsion ABS. It provides a superior mix of high gloss and impact compared to standard ABS. It combines excellent toughness and stiffness for the most challenging injection molded applications.

FEATURES

- High gloss surface finishes
- Broad processing window
- Excellent balance of impact and stiffness

APPLICATIONS

- Toys
- Small appliances
- Consumer durables

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	16
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m ²	26
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	10
Tensile Stress at Yield, 23 °C	ISO 527	MPa	43
Tensile Stress at Break, 23 °C	ISO 527	MPa	33
Tensile Strain at Break, 23 °C	ISO 527	%	35
Tensile Modulus	ISO 527	MPa	2300
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	97
Heat Deflection Temperature A; (unannealed; 1.8 MPa)	ISO 75	°C	97
Heat Deflection Temperature B; (unannealed; 0.45 MPa)	ISO 75	°C	100
Coefficient of Linear Thermal Expansion	ISO 11359	10 ⁻⁶ /°C	80 - 110
Optical Properties			
Specular Gloss, 60 °	-		97
Specular Gloss, 20 °	-		88

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Other Properties			
Density	ISO 1183	kg/m ³	1040
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.22

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.