

Novodur P2T

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL
DATASHEET

DESCRIPTION

Very high heat ABS grade for automotive applications

FEATURES

- Very high heat resistance
- Injection / Extrusion

APPLICATIONS

- Very high heat resistance
- Injection / Extrusion

| Property, Test Condition | Standard | Unit | Values |
|---|------------|-------------------------|--------|
| Rheological Properties | | | |
| Melt Volume Rate 220 °C/10 kg | ISO 1133 | cm ³ /10 min | 3 |
| Mechanical Properties | | | |
| Tensile Stress at Yield, 23 °C | ISO 527 | MPa | 53 |
| Tensile Stress at Break, 23 °C | ISO 527 | MPa | 35 |
| Tensile Strain at Break, 23 °C | ISO 527 | % | > 10 |
| Tensile Modulus | ISO 527 | MPa | 2800 |
| Flexural Strength, 23 °C | ISO 178 | MPa | 80 |
| Flexural Modulus, 23 °C | ISO 178 | MPa | 2500 |
| Izod Notched Impact Strength, 23 °C | ISO 180/A | kJ/m ² | 15 |
| Izod Notched Impact Strength, -30 °C | ISO 180/A | kJ/m ² | 6 |
| Hardness, Rockwell | ISO 2039-2 | R scale | 110 |
| Thermal Properties | | | |
| Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa) | ISO 75 | °C | 98 |
| Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa) | ISO 75 | °C | 105 |
| Vicat Softening Temperature VST/B/50 (50N, 50 °C/h) | ISO 306 | °C | 110 |
| Optical Properties | | | |
| Specular Gloss, 60 ° | - | | 98 |
| Other Properties | | | |

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| Property, Test Condition | Standard | Unit | Values |
|---------------------------------|-----------------|-------------------|--------|
| Density | ISO 1183 | kg/m ³ | 1.06 |
| UL94 rating at 1.5 mm thickness | IEC 60695-11-10 | - | HB |

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.

SUPPLY FORM

Novodur® is delivered in the form of cylindrical or spherical pellets. The bulk density of the pellets is from 0.55 to 0.65 g/cm³. Values may differ for special grades. Standard Packaging unit: 25 kg PE-bag on palette, shrunk or wrapped with PE film. In addition, delivery in larger units of up to 1000 kg (IBC = Intermediate Bulk Container) or silo trucks can be arranged. In dry areas with normal temperature control, Novodur pellets can be stored for relatively long periods of time without any change in mechanical properties. With unstable colors, however, storage over a number of years can give rise to some change in color. Under poor storage conditions, Novodur absorbs moisture, but this can be removed by drying.

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.