

Novodur P2MC

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® P2MC is an injection molding grade especially suitable for electroplating, providing high flowability.

FEATURES

- Electroplating grade
- High flowability
- Good impact resistance

APPLICATIONS

- Automotive grills
- Automotive trim
- Household appliances
- Various Sanitary Applicances

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	25
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	25
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	16
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	25
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	16
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	150
Tensile Strain at Yield, 23 °C	ISO 527	%	2.4
Tensile Stress at Yield, 23 °C	ISO 527	МРа	40
Tensile Modulus	ISO 527	MPa	2200
Flexural Strength, 23 °C	ISO 178	MPa	62
Flexural Modulus, 23 °C	ISO 178	MPa	2100
Tensile Strain at Break, 23 °C	ISO 527	%	> 15
Hardness, Ball Indentation	ISO 2039-1	MPa	91
Thermal Properties			
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	98
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	96



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Standard ISO 75 ISO 75	Unit °C °C	Values 94
ISO 75		94
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	-0	96
ISO 11359	10 ⁻⁶ /°C	100
IEC 62631-2-1	10 ⁻⁴	50
IEC 62631-2-1	10 ⁻⁴	80
IEC 60243-1	kV/mm	37
IEC 62631-2-1	-	3
IEC 62631-2-1	-	2.9
IEC 60112	V	600
IEC 62631-3-1	Ohm*m	>10 ¹³
IEC 62631-3-1	Ohm	>10 ¹⁵
ISO 1183	kg/m³	1030
IEC 60695-11-10	-	НВ
ISO 3795	mm/min	55
IEC 60695-2-12	°C	700
ISO 294-4	%	0.2 - 0.7
ISO 294	°C	230 - 260
ISO 294	°C	60 - 80
ISO 294	mm/s	240
-	°C	80
-	h	2 - 4
	IEC 62631-2-1 IEC 62631-2-1 IEC 60243-1 IEC 62631-2-1 IEC 62631-2-1 IEC 60112 IEC 62631-3-1 IEC 62631-3-1 IEC 60695-11-10 ISO 3795 IEC 60695-2-12 ISO 294-4 ISO 294 ISO 294	IEC 62631-2-1 10-4 IEC 62631-2-1 10-4 IEC 60243-1 kV/mm IEC 62631-2-1 - IEC 62631-2-1 - IEC 60112 V IEC 62631-3-1 Ohm*m IEC 62631-3-1 Ohm ISO 1183 kg/m³ IEC 60695-11-10 - ISO 3795 mm/min IEC 60695-2-12 °C ISO 294 °C

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.



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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.

PRODUCT SAFETY

No adverse effects on the health of processing personnel have been observed where the products are correctly processed and the production areas are suitably ventilated. For styrene, alpha-methylstyrene, acrylonitrile, and butyl acrylate the maximum allowable workplace concentrations must be observed according to the pertaining national regulations. In Germany, the following limit values are valid TRGS 900 (Aug. 2004): styrene, MAK-value: 20 ml/m³; alpha-methylstyrene, MAK-value: 100 ml/m³; acrylonitrile, TRK-value: 3 ml/m³, and butyl acrylate, MAK-value: 2 ml/m³ (1.7.2004). According to EU directive 67/548/EEC, Annex I (2001), acrylonitrile is classified as carcinogenic, category 2 ('substances which should be regarded as if they are carcinogenic to man'). Experience has shown that when Novodur® is processed correctly with appropriate ventilation, the levels are far below the limits mentioned above. Inhalation of the vapors of degradation products which can arise on severe overheating of the materials or during purging out should be avoided. Further information can be found in the Novodur safety data sheets.

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.

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