

Novodur SBM-90

Methyl Methacrylate Butadiene Styrene (MBS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® polymers feature high surface quality and good impact strength. Novodur SBM-90 is especially designed for sensitive applications and a drop-in solution for conventional ABS. Drinking water contact and food contact statements are available upon request. This grade is well suitable for electroplating (with adapted process parameters for plating of conventional ABS).

FEATURES

- Designed for electroplating
- High gloss
- Balanced Properties

APPLICATIONS

- Household applications
- Water filters
- Food contact applications
- Shower heads
- Toys, sports & leisure

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	13
Mechanical Properties			
Charpy Notched Impact Strength, 23 °C	ISO 179/1eA	kJ/m ²	15
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m ²	6
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m ²	130
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m ²	105
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m ²	14
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m ²	3.5
Tensile Modulus	ISO 527	MPa	2000
Tensile Stress at Yield, 23 °C	ISO 527	MPa	40
Tensile Strain at Yield, 23 °C	ISO 527	%	2.5
Tensile Stress at Break, 23 °C	ISO 527	MPa	28
Tensile Strain at Break, 23 °C	ISO 527	%	> 15
Nominal Strain at Break, 23 °C	ISO 527	%	> 15
Flexural Modulus, 23 °C	ISO 178	MPa	2100

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Property, Test Condition	Standard	Unit	Values
Flexural Strength, 23 °C	ISO 178	MPa	55
Hardness, Ball Indentation	ISO 2039-1	MPa	88
Thermal Properties			
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	91
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	90
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	90
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	95
Other Properties			
Density	ISO 1183	kg/m ³	1100
Processing			
Melt Temperature Range	ISO 294	°C	230 - 250
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4
Linear Mold Shrinkage	ISO 294-4	%	0.2 - 0.7