

**Product Texts**

Novodur® SBM-90 features 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).

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	13	cm <sup>3</sup> /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2000	MPa	ISO 527
<sup>[C]</sup> Yield stress	40	MPa	ISO 527
<sup>[C]</sup> Yield strain	2.5	%	ISO 527
Nominal strain at break	15	%	ISO 527
Flexural modulus, 23°C	2100	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	130	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	105	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	6	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	15	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-20	°C	-
Ball indentation hardness	88	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	95	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	91	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Density	1100	kg/m <sup>3</sup>	ISO 1183
Bulk density	600	kg/m <sup>3</sup>	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	2 - 4	h	-
Melt temperature	230 - 250	°C	-
Mold temperature	60 - 80	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets, Granules

**Special Characteristics**

U.V. stabilized or stable to weather

**Certifications**

Food contact, Drinking water contact

**Regional Availability**

Europe, Near East/Africa

**Other text information**

**Injection molding**

PREPROCESSING

Pre-drying, Temperature: 80°C

Pre-drying, Time: 2 - 4h

PROCESSING

Melt temperature, range: 230 - 250°C

Mold temperature, range: 60 - 80°C