

Novodur® SBM-90
 (SMMA+MBS)

INEOS Styrolution

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).

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	13	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2000	MPa	ISO 527
Yield stress	40	MPa	ISO 527
Yield strain	2.5	%	ISO 527
Impact Strength (Charpy), +23°C	130	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	105	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	15	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	6	kJ/m²	ISO 179/1eA
Flexural Modulus (23°C)	2100	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	15	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	6	kJ/m²	ISO 180/1A
Temperature	-20	°C	-
Ball Indentation Hardness	88	MPa	ISO 2039-1

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	90	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	95	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	91	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1100	kg/m³	ISO 1183
Bulk density	600	kg/m³	-

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

Special Characteristics

UV stablized

Delivery form

Pellets, Granules

Certifications

Food approval, Water contact

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