

INEOS Novodur® SBM-90

Categories: Polymer; Thermoplastic; Styrene-Butadiene

Material Notes: Novodur SBM-90 is especially designed for drinking water contact and other sensitive applications. Drinking water approved, UV-stabilized. Applications: Shower Heads, Drinking vessels, Other appliances in direct contact with drinking water

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183

Melt Flow	13 g/10 min @Load 10.0 kg, Temperature 220 °C	13 g/10 min @Load 22.0 lb, Temperature 428 °F	Volumetric; cm ³ /10 min; ISO 1133
-----------	---	---	---

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	88.0 MPa	12800 psi	ISO 2039-1

Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527
-------------------------	----------	----------	---------

Elongation at Break	>= 15 %	>= 15 %	nominal; ISO 527
---------------------	---------	---------	------------------

Elongation at Yield	2.5 %	2.5 %	ISO 527
---------------------	-------	-------	---------

Tensile Modulus	2.00 GPa	290 ksi	ISO 527
-----------------	----------	---------	---------

Flexural Strength	55.0 MPa	7980 psi	ISO 178
-------------------	----------	----------	---------

Flexural Modulus	2.10 GPa	305 ksi	ISO 178
------------------	----------	---------	---------

Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
----------------------------	---	---	-----------

	15.0 kJ/m ² @Temperature 23.0 °C	7.14 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
--	--	--	-----------

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	annealed 4 hours at 80°C; ISO 75

Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	annealed 4 hours at 80°C; ISO 75
---	---------	--------	----------------------------------

Vicat Softening Point	90.0 °C @Load 5.10 kg	194 °F @Load 11.2 lb	B/2 120C/H; ASTM D 1525
-----------------------	--------------------------	-------------------------	-------------------------