INEOS STYROLUTION

Novodur MH-102

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® MH-102 is a medium heat, medium stiffness injection molding grade. It provides an excellent balance of physical and mechanical properties.

FEATURES

- Enhanced heat resistance
- High stiffness

APPLICATIONS

- Automotive interiors
- Mirror housings

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	6
Mechanical Properties			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m²	23
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	17
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	8
Tensile Stress at Yield, 23 °C	ISO 527	MPa	53
Tensile Strain at Break, 23 °C	ISO 527	%	13
Tensile Modulus	ISO 527	MPa	2800
Flexural Strength, 23 °C	ISO 178	MPa	82
Flexural Modulus, 23 °C	ISO 178	MPa	2700
Hardness, Rockwell	ISO 2039-2	R scale	114
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	103
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	100
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	103
Coefficient of Linear Thermal Expansion	ISO 11359	10^{-6}/°C	77
Other Properties			

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Property, Test Condition	Standard	Unit	Values
Moisture Absorption, Equilibrium 23 °C/50% RH	ISO 62	%	0.3
Density (ASTM)	ASTM D 792	g/cm³	1.05
Processing			
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4
Melt Temperature Range	ISO 294	°C	240 - 270
Mold Temperature Range	ISO 294	°C	40 - 80