INEOS STYROLUTION

Novodur 680

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® 680 is an injection molding grade of ABS with high impact strength and is resistant to Chemical attack.

FEATURES

- Chemical resistance
- High impact strength
- Easy flowing

APPLICATIONS

- Home appliances
- Electrical and electronics
- General Injection Molding Application
- Toys, Sport & Leisure

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
Izod Notched Impact Strength, -20 °C	ISO 180/A	kJ/m²	16
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m²	10
Tensile Stress at Break, 23 °C	ISO 527	MPa	34
Tensile Stress at Yield, 23 °C	ISO 527	MPa	46
Tensile Strain at Break, 23 °C	ISO 527	%	20
Tensile Modulus	ISO 527	MPa	2500
Flexural Strength, 23 °C	ISO 178	MPa	70
Flexural Modulus, 23 °C	ISO 178	MPa	2400
Thermal Properties			
Vicat Softening Temperature, B/2 (120 °C/h, 50N)	ASTM D 1525	°C	98
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	91
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	95
Optical Properties			
Specular Gloss, 60 °	-		85

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Property, Test Condition	Standard	Unit	Values
Other Properties			
Density	ISO 1183	kg/m³	1050
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.6