

# Novodur 970

Acrylonitrile Butadiene Styrene (ABS)

## TECHNICAL DATASHEET

### DESCRIPTION

Novodur® 970 is an injection molding grade of ABS with high impact strength and good paintability.

### FEATURES

- Paintability
- High impact strength
- High flow

### APPLICATIONS

- 2 Wheeler application
- Automotive
- Home appliances
- Electrical and electronics
- General Injection Molding Application
- Toys, Sport & Leisure

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	29
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C	ISO 180/A	kJ/m <sup>2</sup>	25
Izod Notched Impact Strength, -20 °C	ISO 180/A	kJ/m <sup>2</sup>	17
Izod Notched Impact Strength, -30 °C	ISO 180/A	kJ/m <sup>2</sup>	11
Tensile Stress at Break, 23 °C	ISO 527	MPa	31
Tensile Stress at Yield, 23 °C	ISO 527	MPa	41
Tensile Strain at Break, 23 °C	ISO 527	%	20
Tensile Modulus	ISO 527	MPa	2250
Flexural Strength, 23 °C	ISO 178	MPa	67
Flexural Modulus, 23 °C	ISO 178	MPa	2200
<b>Thermal Properties</b>			
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	90
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	94

### Optical Properties

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Specular Gloss, 60 °	-		89
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1040
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.6