

Novodur ECO HH-106 MR30

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® ECO HH-106 MR30 is a high heat injection molding grade providing a balanced property profile. The product contains 30% post-consumer mechanically recycled ABS and has received RecyClass certification.

FEATURES

- Balanced properties
- Heat resistance

APPLICATIONS

- Automotive exterior trim : mirror housings, exterior pillars & trims, spoilers
- Housings for electrical & electronic devices

Property, Test Condition	Standard	Unit	Values
Sustainability Properties			
Carbon Footprint Reduction vs Fossil-Based (3rd party validated)	ISO 14044	%	23
Post-Consumer Recycled ABS Content (RecyClass-certified)	-	%	30
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	8
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	10
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	5
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	60
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	50
Tensile Modulus	ISO 527	MPa	2800
Tensile Stress at Yield, 23 °C	ISO 527	MPa	48
Tensile Strain at Yield, 23 °C	ISO 527	%	2.6
Tensile Stress at Break, 23 °C	ISO 527	MPa	40
Nominal Strain at Break, 23 °C	ISO 527	%	16
Flexural Modulus, 23 °C	ISO 178	MPa	2800
Flexural Strength, 23 °C	ISO 178	MPa	80
Hardness, Ball Indentation	ISO 2039-1	MPa	120

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Property, Test Condition	Standard	Unit	Values
Thermal Properties			
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	108
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	106
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	106
Other Properties			
Density	ISO 1183	kg/m ³	1050
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4