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INEOS STYROLUTION

40% RECYCLED PLASTIC

Novodur ECO H801 MR40

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Novodur® ECO H801 MR40 is a PC modified high heat injection molding grade with excellent flowability and high impact strength. Furthermore, it is of low emission, i.e. suitable to produce parts which fulfill interior emission requirements of the automotive OEMs. The product contains 40% post-consumer mechanically recyled ABS and has received RecyClass certification.

FEATURES

- Easy processing
- Good paintability
- Impact strenght
- Low emission

APPLICATIONS

- Unpainted automotive interior: steering wheel covers, roof consoles
- Automotive exterior trim : mirror housings, exterior pillars & trims, spoilers
- Painted/ decorated Automotive interior: glove boxes, centre consoles, instrument panel trims
- Housings for electrical & electronic devices

Property, Test Condition	Standard	Unit	Values
Sustainability Properties			
Carbon Footprint Reduction vs Fossil-Based (3rd party validated)	ISO 14044	%	28
Post-Consumer Recycled ABS Content (RecyClass-certified)	-	%	40
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm³/10 min	10
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m²	35
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m²	15
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m²	160
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m²	130
Tensile Modulus	ISO 527	MPa	2200
Tensile Stress at Yield, 23 °C	ISO 527	MPa	42
Tensile Strain at Yield, 23 °C	ISO 527	%	2.7
Tensile Stress at Break, 23 °C	ISO 527	MPa	36
Nominal Strain at Break, 23 °C	ISO 527	%	13

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Property, Test Condition	Standard	Unit	Values
Flexural Modulus, 23 °C	ISO 178	MPa	2200
Flexural Strength, 23 °C	ISO 178	MPa	71
Hardness, Ball Indentation	ISO 2039-1	MPa	100
Thermal Properties			
Vicat Softening Temperature, VST/B/120 (50N, 120 °C/h)	ISO 306	°C	107
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	105
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	105
Other Properties			
Density	ISO 1183	kg/m³	1070
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	240 - 260
Mold Temperature Range	ISO 294	°C	60 - 80
Drying Temperature	-	°C	80
Drying Time	-	h	2 - 4