Novodur® ECO P2H-AT MR70

ABS INEOS Styrolution

Product Texts

Novodur® ECO P2H-AT MR70 is a general purpose injection molding grade providing high flowability available in white colour. The product contains 70% post-consumer mechanically recyled ABS and has received RecyClass certification.

Carbon Footprint Reduction vs Fossil-Based (3rd party validated): 57 % (ISO 14044)
Post-Consumer Recycled ABS Content (RecyClass-certified): 70 %

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**32**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
Molding shrinkage, parallel	**0.6**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2300**	MPa	ISO 527
[C] Yield stress	**41**	MPa	ISO 527
[C] Yield strain	**2.1**	%	ISO 527
[C] Nominal strain at break	**6**	%	ISO 527
Flexural modulus, 23°C	**2200**	MPa	ISO 178
Flexural strength	**70**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**80**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**70**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**18**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**8**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**80**	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**91**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**95**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**96**	°C	ISO 306
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1050**	kg/m³	ISO 1183
Recycled resin content	**70**	%	-
Bulk density	**600**	kg/m³	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**60 - 80**	°C	-

Characteristics

Processing
Injection Molding

Certifications
Recycled Resin Content

Delivery form
Pellets, White

Applications
Electrical and Electronical, General Purpose, Packaging

Features
High Gloss

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
PREPROCESSING
Pre-drying, Temperature: 80°C
Pre-drying, Time: 2 - 4h
PROCESSING
Melt temperature, range: 230 - 260°C
Mold temperature, range: 60 - 80°C