

Product Texts

Novodur® ECO P2H-AT MR50 is a general purpose injection molding grade providing high flowability available in white colour. The product contains 50% post-consumer mechanically recycled ABS and has received RecyClass certification.

Carbon Footprint Reduction vs Fossil-Based (3rd party validated): 38 % (ISO 14044)

Post-Consumer Recycled ABS Content (RecyClass-certified): 50 %

Colour: anthracite

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	33	cm ³ /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	2500	MPa	ISO 527
^[C] Yield stress	45	MPa	ISO 527
^[C] Yield strain	2.2	%	ISO 527
^[C] Nominal strain at break	6	%	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	70	MPa	ISO 178
^[C] Charpy impact strength, +23°C	80	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	70	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	18	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	8	kJ/m ²	ISO 179/1eA
Ball indentation hardness	85	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/m ³	ISO 1183
Recycled resin content	50	%	-
Bulk density	600	kg/m ³	-

[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

Delivery form

Pellets, White

Features

High Gloss

Certifications

Recycled Resin Content

Applications

Electrical and Electronical, General Purpose, Packaging

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