

**Product Texts**

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 recycled ABS and has received RecyClass certification.

Carbon Footprint Reduction vs Fossil-Based (3rd party validated): 28 % (ISO 14044)

Post-Consumer Recycled ABS Content (RecyClass-certified): 40 %

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	10	cm <sup>3</sup> /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
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2200	MPa	ISO 527
<sup>[C]</sup> Yield stress	42	MPa	ISO 527
<sup>[C]</sup> Yield strain	2.7	%	ISO 527
<sup>[C]</sup> Nominal strain at break	13	%	ISO 527
Flexural modulus, 23°C	2200	MPa	ISO 178
Flexural strength	71	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	160	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	130	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	35	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	15	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness	100	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	100	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	105	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Density	1070	kg/m <sup>3</sup>	ISO 1183
Recycled resin content	40	%	-
Bulk density	600	kg/m <sup>3</sup>	-

[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

**Applications**

Automotive, Electrical and Electronical

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Regional Availability**

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

**Features**

Low Emission

**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