

Product Texts

Novodur® H605 acrylonitrile butadiene styrene (ABS) polymer features high surface quality and good impact strength. Novodur® H605 is a high heat injection molding grade with enhanced flowability and low emission, i.e. suitable to produce parts which fulfill interior emission requirements of the automotive OEMs. Furthermore, food contact statements are available upon request.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|--------------|------------------------|---------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 26 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| ^[C] Density of melt | 934 | kg/m ³ | - |
| ^[C] Thermal conductivity of melt | 0.188 | W/(m K) | - |
| ^[C] Spec. heat capacity of melt | 2250 | J/(kg K) | - |
| ^[C] Ejection temperature | 98 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------------|-------------------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2400 | MPa | ISO 527 |
| ^[C] Yield stress | 47 | MPa | ISO 527 |
| ^[C] Yield strain | 2.5 | % | ISO 527 |
| ^[C] Nominal strain at break | 17 | % | ISO 527 |
| ^[C] Charpy impact strength, +23°C | 90 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy impact strength, -30°C | 80 | kJ/m ² | ISO 179/1eU |
| ^[C] Charpy notched impact strength, +23°C | 15 | kJ/m ² | ISO 179/1eA |
| ^[C] Charpy notched impact strength, -30°C | 7 | kJ/m ² | ISO 179/1eA |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Temp. of deflection under load, 1.80 MPa | 98 | °C | ISO 75-1/-2 |
| ^[C] Temp. of deflection under load, 0.45 MPa | 102 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 102 | °C | ISO 306 |
| ^[C] Coeff. of linear therm. expansion, parallel | 80 | E-6/K | ISO 11359-1/-2 |
| ^[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] Water absorption | 1.03 | % | Sim. to ISO 62 |
| ^[C] Density | 1050 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

Low Emission

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