Product Information



INVISTA U3602 PA66 R<u>esin</u>

Product Description

INVISTA U3602 is a low viscosity, natural PA66 resin suitable for compounding, injection molding, and extrusion applications where high flow, excellent color, and physical property retention are desired.

RV in formic acid, nominal36-ASTM D789VN at 0.5% in sulfuric acid, nominal128mL/gISO 307RV at 1% in sulfuric acid, nominal2.4Density1.14g/cm³ISO 1183	
Density 1.14 g/cm ³ ISO 1183	
Density1.14g/cm³ISO 1183	
Mold shrinkage, 2.0 mm, parallel 1.3 % ISO 294-4	
Mold shrinkage, 2.0 mm, parallel1.3%1SO 294-4Mold shrinkage, 2.0 mm, transverse1.4%ISO 294-4Wotor shearartian24 hours1.9%	
The Water absorption - 24 hours1.8%ISO 62	
Water absorption - equilibrium @ 50% RH2.6%ISO 62	
Tensile strength at yield82MPaISO 527	
Elongation at yield4.4%ISO 527	
Elongation at break35%ISO 527	
Tensile modulus2950MPaISO 527	
Flexural modulus 2900 MPa ISO 178	
Flexural modulus2900MPaISO 178Flexural strength98MPaISO 178Notched Charpy at 23°C5.1kJ/m²ISO 179	
Notched Charpy at 23°C5.1kJ/m²ISO 179	
Notched Charpy at -30°C4.7kJ/m²ISO 179	
Unnotched Charpy at 23°CNBkJ/m²ISO 179	
Unnotched Charpy at -30°CNBkJ/m²ISO 179	
Notched Izod at 23°C4.0kJ/m²ISO 180	
Melting temperature, 10°C/min 262 °C ISO 11357	
Melting temperature, 10°C/min262°CISO 11357HDT at 0.45 MPa197°CISO 75HDT at 1.80 MPa608CISO 75	
F HDT at 1.80 MPa 69 °C ISO 75	

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General Information

Material Status

Commercial: Active

Availability

- North America
- South America
- Europe
- Asia

Features

- Exceptionally high flow
- Excellent mechanical properties in glass-fiberreinforced resins

RoHS

No intentional additives or ingredients used in U3602 are among those in European directive 2011/65/EC (RoHS), as amended.

Process Guidelines for Molding	
Drying temperature	80°C
Drying time*	3 - 6 hrs
Barrel temperatures	
Rear	250 – 280°C
Middle	275 – 290°C
Front	275 – 290°C
Nozzle	275 – 295°C
Processing temperature (melt)	280 – 295°C
Mold temperature	50 – 90°C
Back pressure**	2 - 10 bar
Vent depth	0.007 - 0.04 mm
Cushion (range)	4 – 6 mm
Suggested moisture (max)	0.20 wt%
Suggested moister (min)	0.12 wt%
Screw Speed	75 - 180 rpm

* Initial moisture below 0.3 wt%. Use dehumidified air. ** Melt pressure

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