INVISTA™ U4201

PA66 Invista

Product Texts

Soluble or severely attacked after brief contact.

Please consider the information about the application of the materials.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.4**	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.4**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**2800**	MPa	ISO 527
Yield stress	**82**	MPa	ISO 527
Yield strain	**4.4**	%	ISO 527
Strain at break	**33**	%	ISO 527
Flexural modulus, 23°C	**2800**	MPa	ISO 178
Flexural strength	**92**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**260**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**4.3**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**3.8**	kJ/m²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**258**	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**62**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**191**	°C	ISO 75-1/-2

Other properties	Value	Unit	Test Standard
Density	**1140**	kg/m³	ISO 1183

Material specific properties	Value	Unit	Test Standard
ISO Data			
Viscosity number	**138**[1]	cm³/g	ISO 307, 1157, 1628

1: VN at 0.5% in sulfuric acid, nominal

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**8 - 12**	h	-
Processing humidity	**≤0.2**	%	-
Melt temperature	**280 - 295**	°C	-
Mold temperature	**50 - 90**	°C	-
Zone 1	**250 - 270**	°C	-
Zone 2	**270 - 290**	°C	-
Zone 3	**270 - 290**	°C	-
Nozzle temperature	**270 - 295**	°C	-
Screw speed	**75 - 180**	rpm	-
Back pressure	**0.2 - 1**	MPa	-

Characteristics

Processing

Injection Molding

Applications

General Purpose

Certifications
RoHS compliant

Regional Availability
North America, Europe, Asia Pacific, South and Central America