

UBE Nylon 1013GUX50

Polyamide 6



General

Generic identification and marking	PA6-GF50
Market example	Automotive
Application example	Chassis & Underbody
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced, Heat resistant, High rigidity
Production area	Japan
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	240
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	17000
Flexural strength	MPa	ISO178	370
Flexural modulus	MPa	ISO178	15000
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	18
Tensile strength after moisture absorption	MPa	ISO527-1,2	153
Tensile modulus after moisture absorption	MPa	ISO527-1,2	11000
Tensile strain at break after moisture absorption	%	ISO527-1,2	5
Charpy notched impact strength after moisture absorption	J/m	ISOxx179-1/1eA	27

Thermal property	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	215-225
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	220
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	210
Coefficient of linear thermal expansion	× 10 ⁻⁵ /K	ISO11359-2	2.0

Electrical property	Unit	Test standard	Typical value
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Molding property	Unit	Test standard	Typical value
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Other property	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.57

Remarks

* The contents of here written materials were prepared based on materials, information and data available at the present moment. They may be revised because of new knowledge, information and data without notification.

* The data described herein are averaged values obtained by specified measurement: they are not guaranteed figures.

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