

UBE Nylon 3024GC650

Polyamide 12



General

Generic identification and marking	PA12-GF30
Market example	Automotive
Application example	Fuel Line
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced
Production area	Japan
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	125
Tensile strain at break	%	ISO527-1,2	7
Tensile modulus	MPa	ISO527-1,2	7000
Flexural strength	MPa	ISO178	185
Flexural modulus	MPa	ISO178	5800
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	28
Rockwell hardness (R scale)	-	ISO2039	110
Rockwell hardness (M scale)	-	ISO2039	72

Thermal property	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	175-181
Temperature of deflection under load at 0.45MPa	°C	ISO75-1,2	177
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	160

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	1.24

Remarks

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