

UBE Nylon 1015GI2

Polyamide 6



General

Generic identification and marking

Market example Electrical & Electronics

Application example

Processing example Injection molding

Elemental Technology Glass fiber reinforced, Impact resistant

Production area Japan

Development product Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	140
Tensile strain at break	%	ISO527-1,2	5
Tensile modulus	MPa	ISO527-1,2	8000
Flexural strength	MPa	ISO178	220
Flexural modulus	MPa	ISO178	7400
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	21
Rockwell hardness (R scale)	-	ISO2039	110
Rockwell hardness (M scale)	-	ISO2039	80
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	105

Thermal property

	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	215-225
Temperature of deflection under load at 1.8MPa	°C	ISO75-1,2	200

Electrical property

	Unit	Test standard	Typical value
Volume resistivity	$\Omega \cdot \text{cm}$	IEC60093	10^{15}
Volume resistivity after moisture absorption	$\Omega \cdot \text{cm}$	IEC60093	10^{13}

Molding property

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.33
Water absorption at equilibrium	%	UBE Method	2.3

Remarks

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