

UBE Nylon 1015GX78V

Polyamide 6



General

Generic identification and marking	PA6-GF33
Market example	Automotive
Application example	Interior
Processing example	Injection molding
Elemental Technology	Glass fiber reinforced, Heat resistant, Weather resistant
Production area	Thailand
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	185
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	10500
Flexural strength	MPa	ISO178	270
Flexural modulus	MPa	ISO178	9800
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	11
Tensile strength after moisture absorption	MPa	ISO527-1,2	107
Tensile modulus after moisture absorption	MPa	ISO527-1,2	7100
Tensile strain at break after moisture absorption	%	ISO527-1,2	5
Flexural strength after moisture absorption	MPa	ISO178	168
Flexural modulus after moisture absorption	MPa	ISO178	5900
Charpy notched impact strength after moisture absorption	J/m	ISOxx179-1/1eA	21
Rockwell hardness (R scale)	-	ISO2039	120
Rockwell hardness (M scale)	-	ISO2039	100
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	105
Rockwell hardness (M scale) after moisture absorption	-	ISO2039	62

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	2.5

Electrical property	Unit	Test standard	Typical value
Comparative Tracking Index	-	UL746A	1

Molding property	Unit	Test standard	Typical value
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Other property	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.39
Water absorption at equilibrium	%	UBE Method	1.8

Remarks

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

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