

UBE Nylon 1218IU

Polyamide 6



General

Generic identification and marking	PA6+PA6/66-I
Market example	Automotive
Application example	Hydrogen
Processing example	Injection molding, Blow molding
Elemental Technology	Impact resistant, Heat resistant, High gas barrier
Production area	Japan
Development product	Not applicable

Mechanical property

	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	60
Tensile strain at break	%	ISO527-1,2	>50
Tensile modulus	MPa	ISO527-1,2	1900
Flexural strength	MPa	ISO178	70
Flexural modulus	MPa	ISO178	1700
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	120

Thermal property

	Unit	Test standard	Typical value
Melting temperature	°C	ISO11357	205-215
Vicat softening temperature	°C	ISO 306 A50	210
Coefficient of linear thermal expansion	x10 ⁻⁵ /K	ISO11359-2	11.0

Electrical property

Molding property

Other property

	Unit	Test standard	Typical value
Density	g/cm ³	ISO1183	1.07
Gas transmission rate	mol · m/(m ² · s · Pa)	ISO15105-1	3.0 × 10 ¹⁶

Remarks

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