

UBE Nylon 1013R550A

Polyamide 6



General

Generic identification and marking	PA6-MD25
Market example	Automotive
Application example	Chassis & Underbody
Processing example	Injection molding
Elemental Technology	Mineral reinforced
Production area	Thailand
Development product	Not applicable

Mechanical property	Unit	Test standard	Typical value
Tensile strength	MPa	ISO527-1,2	80
Tensile strain at break	%	ISO527-1,2	3
Tensile modulus	MPa	ISO527-1,2	6200
Flexural strength	MPa	ISO178	125
Flexural modulus	MPa	ISO178	6000
Charpy notched impact strength	kJ/m ²	ISO179-1/1eA	3
Tensile strength after moisture absorption	MPa	ISO527-1,2	36
Tensile modulus after moisture absorption	MPa	ISO527-1,2	3100
Tensile strain at break after moisture absorption	%	ISO527-1,2	4
Flexural strength after moisture absorption	MPa	ISO178	51
Flexural modulus after moisture absorption	MPa	ISO178	2100
Rockwell hardness (R scale)	-	ISO2039	115
Rockwell hardness (M scale)	-	ISO2039	75
Rockwell hardness (R scale) after moisture absorption	-	ISO2039	79
Rockwell hardness (M scale) after moisture absorption	-	ISO2039	14

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	100

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
Water absorption at equilibrium	%	UBE Method	2.0

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.

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