

# UBE Nylon 5034 UC2

Polyamide 66/6 Copolymer  
UBE Engineering Plastics, S.A.

Message:

UBE NYLON 5034 UC2 is a Nylon Clay Hybrid material. This PA6/6.6 Copolyamide contains exfoliated Montmorillonite platelets incorporated into the polymeric structure. It is produced by UBE's unique, patented pretreatment and polymerization technology. The material offers enhanced mechanical and barrier properties.

General Information			
Filler / Reinforcement	Clay nano filler, 2.0% filler by weight		
Additive	heat stabilizer		
Features	Thermal Stability		
	Barrier resin		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	80.9	MPa	ISO 527-2
Fracture	50.8	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	3.9	%	ISO 527-2
Fracture	150	%	ISO 527-2
Flexural Modulus	3350	MPa	ISO 178
Flexural Stress	121	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	144	°C	ISO 75-2/B
1.8 MPa, not annealed	58.0	°C	ISO 75-2/A
Melting Temperature (DSC)	192	°C	ISO 3146
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Notched Izod Impact, ISO 180, 23°C, Notch A: 51 J/mMolecular Ratio, PA6/PA6.6: 80/20

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