

UBESTA 3014 U

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3014 U is a low viscosity, non-reinforced and non-plasticized Polyamide 12 for injection moulding application. UBESTA 3014 U shows only low moisture absorption and therefore exceptional dimension stability.

General Information			
UL YellowCard	E48133-240214		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Low hygroscopicity		
	Low viscosity		
	Good formability		
	Good liquidity		
	Thermal Stability		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.0 kg)	9.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.90	%	ISO 294-4
Flow direction	0.90	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ISO 2039-2
Durometer Hardness (Shore D)	77		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	47.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.0	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	3.0	kJ/m ²	ISO 179/1eA

23°C, complete fracture	3.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	95.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A
Melting Temperature (DSC)	180	°C	ISO 3146
CLTE - Flow	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Additional Information			

The value listed as Melting Temperature, ISO 3146, was tested in accordance with ISO 11357. Tensile Strain at Break, ISO 527: >200% Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 6 mg

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