

UBE Nylon P7115 U

Polyamide 612

UBE Engineering Plastics, S.A.

Message:

UBESTA P7115 U is a low viscosity, non-reinforced and non-plasticized Polyamide 12/6 copolymer powder.

General Information			
Additive	heat stabilizer		
Features	Low viscosity		
	Good formability		
	Good liquidity		
	Thermal Stability		
Appearance	Natural color		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.0 kg)	34	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.6	%	ISO 294-4
Flow direction	0.20	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.4	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	66		ISO 2039-2
Durometer Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	7.0	%	ISO 527-2
Fracture	300	%	ISO 527-2
Flexural Modulus	500	MPa	ISO 178
Flexural Stress	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	1.0	kJ/m²	ISO 179/1eA
23°C, complete fracture	11	kJ/m²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	47.0	°C	ISO 75-2/B
1.8 MPa, not annealed	42.0	°C	ISO 75-2/A

Melting Temperature (DSC)	145	°C	ISO 3146
CLTE - Flow	1.7E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	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: >300%Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 5 mg

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