

UBESTA P3014 UMX

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA P3014 UMX is a polyamide 12 (nylon 12) product. It can be processed by injection molding and is available in Europe.

Features include:

- low viscosity
- Good processability
- heat stabilizer

General Information			
Additive	heat stabilizer		
Features	Low viscosity		
	Good formability		
	Good liquidity		
	Thermal Stability		
Appearance	Natural color		
Forms	Powder		
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)	19	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.0	%	ISO 294-4
Flow direction	1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.50	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	98		ISO 2039-2
Durometer Hardness (Shore D)	75		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	43.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	10	%	ISO 527-2
Fracture	300	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Flexural Stress	49.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	2.0	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	110	°C	ISO 75-2/B
1.8 MPa, not annealed	49.0	°C	ISO 75-2/A
Melting Temperature (DSC)	179	°C	ISO 3146
CLTE - Flow	1.4E-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: >300% Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 6 mg

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