UBESTA P3012 U

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA P3012 U is a low viscosity, a heat stabilized, natural PA12 powder with a high MFR-value. It is suitable for application which demand a powder good flow-ability of the polymer. UBESTA 3012 U offers good viscosity stability in compounding of highly filled systems as used for plastics magnets. UBESTA 3012 U shows only low moisture absorption and therefore exceptional dimension stability.

General Information			
Additive	heat stabilizer		
Features	Good dimensional stability Low hygroscopicity Low viscosity High liquidity Thermal Stability		
Appearance	Natural color		
Forms	Powder		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.02	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/1.0 kg)	17	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.90	%	ISO 294-4
Flow direction	0.80	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.60	%	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	5.0	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	1500	MPa	ISO 178
Flexural Stress	62.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	3.0	kJ/m²	ISO 179/1eA
23°C, complete fracture	3.0	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, not annealed	103	°C	ISO 75-2/B
1.8 MPa, not annealed	48.0	°C	ISO 75-2/A
Melting Temperature (DSC)	180	°C	ISO 3146
CLTE - Flow	1.5E-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

Recommended distributors for this material

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