UBESTA 3035 UF

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3035 UF is a high molecular, non-reinforced and non-plasticized Polyamide 12 specially design for pressurized gas pipes. UBESTA 3035 UF shows only low moisture absorption and therefore exceptional dimension stability.

General Information	
Additive	UV stabilizer
Features	Good dimensional stability Low hygroscopicity High molecular weight Workability, good
Uses	Piping system
Appearance	Yellow
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	2.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.5	%	ISO 294-4
Flow direction	0.70	%	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)	74		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	44.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	5.0	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress	55.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	6.0	kJ/m²	ISO 179/1eA

23°C, complete fracture	16	kJ/m²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	92.0	°C	ISO 75-2/B
1.8 MPa, not annealed	46.0	°C	ISO 75-2/A
Melting Temperature (DSC)	178	°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

Recommended distributors for this material

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