

UBESTA 3020 X15

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3020 X15 is a medium viscosity, non-reinforced and non-plasticized Polyamide 12. UBESTA 3020 X15 shows only low moisture absorption and therefore exceptional dimension stability. Typical application is for heater wires.

General Information			
Features	Good dimensional stability		
	Low hygroscopicity		
	Workability, good		
	Medium viscosity		
Uses	Wire and cable applications		
Appearance	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	20	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.0	%	ISO 294-4
Flow direction	0.90	%	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)	78		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	46.0	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	57.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	4.0	kJ/m ²	ISO 179/1eA
23°C, complete fracture	4.0	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	49.0	°C	ISO 75-2/A
Melting Temperature (DSC)	178	°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: >200% Abrasion Loss, ISO 9352, CS-17, 1000 rev.: 6 mg

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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