

UBESTA 3020 X29L

Polyamide 12

UBE Engineering Plastics, S.A.

Message:

UBESTA 3020 X29L is a special extrusion Polyamide 12 grade for protective coating of metal tubes and profiles by extrusion coating with or without primer, depending on corrosion protective coating requirements.

General Information	
Features	Impact resistance, high
	Good wear resistance
	Good adhesion
Uses	Protective coating
	Coating application
Appearance	Black
Forms	Particle
Processing Method	Extrusion
	Extrusion coating

Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	15	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.2	%	ISO 294-4
Flow direction	1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.60	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		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	6.0	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress	53.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	5.0	kJ/m ²	ISO 179/1eA

23°C, complete fracture	7.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	116	°C	ISO 75-2/B
1.8 MPa, not annealed	47.0	°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.: 10 mg

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