

# UBESTA 3030 JI9L

Polyamide 12  
UBE Engineering Plastics, S.A.

Message:

UBESTA 3030 JI9L is a plasticized and impact modified PA12 grade for heat resistant airbrake tubing. The material is stabilized against weatherability. It is designed for high burst pressure performance at elevated temperatures as modern brake systems in trucks are operating at 12.5 bar.

General Information			
Additive	Impact modifier		
	Plasticizer		
Features	Impact modification		
	Plasticized		
	Impact resistance, high		
	Workability, good		
	Good weather resistance		
	Thermal stability, good		
Uses	Pipe fittings		
Agency Ratings	DIN 73378		
Appearance	Black		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.4	%	ISO 294-4
Flow direction	0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	71		ISO 2039-2
Durometer Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	14	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	500	MPa	ISO 178
Flexural Stress	25.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C, complete fracture	4.0	kJ/m <sup>2</sup>	ISO 179/1eA
23°C, local fracture	90	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	93.0	°C	ISO 75-2/B
1.8 MPa, not annealed	44.0	°C	ISO 75-2/A
Melting Temperature (DSC)	175	°C	ISO 3146
CLTE - Flow	1.6E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	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.: 7 mg

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#### Recommended distributors for this material

### 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

