

UBESTA 3030 JI14L

Polyamide 12
UBE Engineering Plastics, S.A.

Message:

The plasticized and impact modified PA12 grade UBESTA 3030 JI14L is equipped with a special low migration plasticizer offering high dimensional stability. The grade is stabilized against heat and weatherability. It is designed for high burst pressure performance at elevated temperatures as for brake systems in trucks with operating pressures of 12.5 bar.

General Information			
Additive	Impact modifier		
	heat stabilizer		
	Plasticizer		
Features	Good dimensional stability		
	Impact modification		
	Plasticized		
	Workability, good		
	Thermal Stability		
Agency Ratings	DIN 73378		
Appearance	Black		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm³	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	1.5	%	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)	69		ISO 2039-2
Durometer Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	32.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	19	%	ISO 527-2
Fracture	200	%	ISO 527-2
Flexural Modulus	700	MPa	ISO 178
Flexural Stress	28.0	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, local fracture	90	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	96.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°C	ISO 75-2/A
Melting Temperature (DSC)	175	°C	ISO 3146
CLTE - Flow	1.4E-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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