

Product Information

VESTAMID® X7293

Plasticized, heat- and light-stabilized polyamide 12 compound

VESTAMID X7293 is a plasticized polyamide 12 compound with heat and light stabilizer for the extrusion of flexible tubing and hose, especially for automotive applications according to DIN 73378, (PA 12-HIPHL, Type 1), ISO/DIN 7628-1 (PA 12-HIPEHL, Type 1) and SAE J844.

VESTAMID X7293 is distinguished by an easy processing as well as by a high impact strength at low temperatures.

Properties of compounds based on PA 12 vary little with changing humidity due to low moisture absorption. Parts made of this semi-crystalline material are characterized by exceptional impact strength, low coefficient of friction and good chemical resistance.

VESTAMID X7293 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

Property	Test method		Unit	VESTAMID X7293	
	international	national			
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm ³	1.02
Tensile test		ISO 527-1	DIN EN ISO 527-1		
Stress at yield		ISO 527-2	DIN EN ISO 527-2	MPa	27
Strain at yield				%	32
Nominal strain at break				%	> 200
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	410
		ISO 527-2	DIN EN ISO 527-2		
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU		
	23°C			kJ/m ²	N ¹⁾
	-30°C			kJ/m ²	N ¹⁾
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA		
	23°C			kJ/m ²	130 P ¹⁾
	-30°C			kJ/m ²	7 C ¹⁾
Impact strength (tubing 12x1.5mm)		ISO 7628-2	DIN 73378		
as molded	-40°C			J	N ¹⁾
72h/ 150°C	23°C			J	N ¹⁾
Impact strength (tubing 6x1mm)			SAE J844		
after 24h /110°C	-40°C				N ¹⁾
2h in boiling water	-40°C				N ¹⁾
Hoop stress at burst	23°C		DIN 53758	MPa	24.5
	100°C			MPa	10.5
Temperature of deflection under load		ISO 75-1	DIN EN ISO 75-1		
		ISO 75-2	DIN EN ISO 75-2		
Method A	1.8 MPa			°C	45
Method B	0.45 MPa			°C	120

¹⁾ C = Complete break, incl. hinge break H
N = No break
P = Partial break