Product Information

VESTAMID® X7070

Plasticized, heat- and light-stabilized polyamide 12 compound

VESTAMID X7070 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 3), ISO/DIN 7628-1 (PA 12-HIP, EHL, Type 3) and SAE J844.

VESTAMID X7070 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 X7070 is supplied as cylindrical granules, ready for processing, in moisture-proof bags.

For guidance processing of VESTAMID X7070 please follow the general recommendations for polyamide 12 in our brochure "Handling and Processing of VESTAMID".

For further information, please contact our experts in the department Market Development of the High Performance Polymers Business Line.

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Property		Test method international	Test method national	Unit	PA12-HIPHL* Type 3 VESTAMID X7070	PA12-HIPHL* Type 1 VESTAMID X7293
Density	23°C	ISO 1183	DIN EN ISO 1183	g/cm³	1.02	1.02
Melting range		ISO 11357				
DSC	2nd heating			°C	185	172
Extractables		ISO 6427	DIN EN ISO 6427	%	8	12
Tensile test		ISO 527-1	DIN EN ISO 527-1			
		ISO 527-2	DIN EN ISO 527-2			
Stress at yield				MPa	27	27
Strain at yield				%	35	32
Nominal strain at break				%	> 200	> 200
Tensile modulus		ISO 527-1	DIN EN ISO 527-1	MPa	370	400
		ISO 527-2	DIN EN ISO 527-2			
CHARPY impact strength		ISO 179/1eU	DIN EN ISO 179/1eU			
	23°C			kJ/m²	N[1)]	N[1)]
	-30°C			kJ/m²	N[1)]	N[1)]
CHARPY notched impact strength		ISO 179/1eA	DIN EN ISO 179/1eA			
	23°C			kJ/m²	140 P[1)]	130 P[1)]
	-30°C			kJ/m²	10 C[1)]	7 C[1)]
Impact strength	(tubing12x1.5mm)	ISO 7628-2	DIN 73378			
as molded	-40°C			J	N[1)]	N[1)]
72h/ 150°C	23°C			J	N[1)]	N[1)]
Impact strength	(tubing 6x1mm)		SAE J844			
after 24h /110°C	-40°C				N[1)]	N[1)]
2h in boiling water	-40°C				N[1)]	N[1)]
Hoop stress at burst	23°C		DIN 53758	MPa	26	23
	100°C			MPa	10	10

Pigmentation may affect values.

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

* Designation according to DIN 73 378, 02/1996

® = registered trademark

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