VESTAMID® NRG 1001 natural color

Polyamide 12

Evonik Industries AG

Message:

High viscosity, platicized, impact-modified, heat and light stabilized PA12 compound for extrusion.
VESTAMID®NRG 1001 is a plasticized PA 12 compound with heat and light stabilizers for the extrusion of flexible tubing and hoses especially for oil and petrochemical applications.
VESTAMID®NRG 1001 is characterized by easy processing and good dimensional control during pipe extrusion, especially when processing large pipe diameters.
Properties of compounds based on polyamide 12 vary little with changing humidity due to low moisture absorption
Parts made of the described semi-crystalline materialare characterized by exceptional impact strength, low coefficient of sliding friction and good chemical resistance.
VESTAMID®NRG 1001 is supplied ready for use in moisture-proof bags.
The recommended process temperature for extrusion is 220°C to 250°C.

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Impact Resistance		
	Good Processability		
	High Viscosity		
	Low Friction		
	Low Moisture Absorption		
	Semi Crystalline		
Appearance	Natural Color		
Processing Method	Pipe Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.02	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	380	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield [1]	26.0	MPa	
Break	38.0	MPa	
Tensile Strain			ISO 527-2
Yield [2]	35	%	
Break [3]	> 200	%	
Break	> 150	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA

-30°C, Complete Break	7.0	kJ/m²	
23°C, Partial Break	130	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Melting Temperature [4]	172	°C	ISO 11357-3
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 250	°C	
NOTE			
1.	Pipe Test Specimen		
2.	Pipe Test Specimen		
3.	Pipe Test Specimen		
4.	2nd Heating		

Recommended distributors for this material

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