

VESTAMID® NRG 6001 natural color

Polyamide 12
Evonik Industries AG

Message:

High viscosity, platicized, impact-modified, heat and light stabilized PA12 compound for extrusion.
VESTAMID®NRG 6001 natural color 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 6001 natural color 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 material are characterized by exceptional impact strength, low coefficient of sliding friction and good chemical resistance.
VESTAMID®NRG 6001 is supplied ready for use in moisture-proof bags.
The recommended process temperature for extrusion is 220°C to 260°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	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.02	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	390	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield ¹	26.0	MPa	
Break	44.0	MPa	
Tensile Strain ²			
Yield	30	%	ISO 527-2
Break	> 150	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
Partial Break	94	kJ/m ²	

-40°C, Complete Break	5.4	kJ/m ²	
-30°C, Complete Break	7.2	kJ/m ²	
23°C, Partial Break	130	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°C	No Break		
-30°C	No Break		
0°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	118	°C	ISO 75-2/B
Vicat Softening Temperature			
--	164	°C	ISO 306/A
--	124	°C	ISO 306/B
Melting Temperature ³	172	°C	ISO 11357-3
Additional Information	Nominal Value	Unit	
Hoop Stress - at burst (23°C)	23.0	MPa	
Extrusion	Nominal Value	Unit	
Melt Temperature	220 to 260	°C	
NOTE			
1.	Pipe Test Specimen		
2.	Pipe Test Specimen		
3.	2nd Heating		

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