

VESTAMID® D DX9325

Polyamide 612
Evonik Industries AG

Message:

Characterization: 40% glass fiber reinforced, heat-stabilized
Applications: plastic-rubber composites
Its advantages over PA 12 exhibit in the
heat deflection temperature (melting point nearly 40 °C higher)
tensile and flexural strength
outstanding recovery at high wet strength
The PA 612 compounds of the VESTAMID® D series consequently represent specialty products that complement the comprehensive selection of PA 12 compounds of the VESTAMID® L series.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Carbon Black		
	Heat Stabilizer		
Features	Food Contact Acceptable		
	Fuel Resistant		
	Good Abrasion Resistance		
	Grease Resistant		
	Heat Stabilized		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Light Stabilized		
	Oil Resistant		
	Solvent Resistant		
Agency Ratings	FDA 21 CFR 177.1500		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.37	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow	0.80	%	
Flow	0.23	%	
Water Absorption			ISO 62
Saturation, 23°C	1.9	%	
Equilibrium, 23°C, 50% RH	0.80	%	
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	9400	MPa	ISO 527-2/1A
Tensile Stress (Break)	150	MPa	ISO 527-2/1A
Tensile Strain (Break)	4.0	%	ISO 527-2/1A
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Complete Break	16	kJ/m ²	
23°C, Complete Break	22	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C, Complete Break	100	kJ/m ²	
23°C, Complete Break	100	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Melting Temperature ²	212	°C	ISO 11357-3
CLTE - Transverse (23 to 55°C)	5.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
Additional Information	Nominal Value		Test Method
ISO Shortname	PA12, MH, 14-100, GF40		ISO 1874
NOTE			
1.	specimen 127x12.7x3.2 mm processing acc. to ISO 1874-2		
2.	2nd Heating		

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