

EPLAMID 6 GV2 30 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Flame retardant polyamide 6 reinforced with 30% of glass fiber, heat stabilized for injection moulding.
Halogenated flame retardant grade, compliance with RoHS derivatives, with rating UL94 V2 and glow-wire at 850°C, combines excellent all around mechanical properties.
This material is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
		Flame retardancy		
Features		Halogenated		
		Thermal Stability		
		Flame retardancy		
RoHS Compliance		RoHS compliance		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	0.80	--	%	ISO 294-4
Flow direction: 3.00mm	0.30	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	30	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	89	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10800	10500	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	140	115	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	9500	9300	MPa	ISO 178
Flexural Stress ² (23°C)	250	215	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	12	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	10	11	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³				
0.45 MPa, not annealed	205	--	°C	ISO 75-2/B
1.8 MPa, not annealed	215	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-2	--		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index (0.800 mm)	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	750	--	°C	IEC 60695-2-13
Additional Information				
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TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.				
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 - 4.0		hr	
Processing (Melt) Temp	280		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	120°C/h			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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