

EPLAMID 6 GCV2 20 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Flame retardant polyamide 6 reinforced with 20% of glass fiber, heat stabilized for injection moulding.
Halogen free flame retardant grade, compliance with RoHS derivatives, with rating UL94 V2 and glow-wire at 850°C, it gives very good performance and high electrical demanding application.
This material is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 20% filler by weight		
Additive		heat stabilizer		
		Flame retardancy		
Features		Thermal Stability		
		Halogen-free		
		Flame retardancy		
RoHS Compliance		RoHS compliance		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.42	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	0.80	--	%	ISO 294-4
Flow direction: 3.00mm	0.40	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	20	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	86	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5700	5500	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	110	90.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	5400	5200	MPa	ISO 178
Flexural Stress ² (23°C)	105	95.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	8.0	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	7.0	9.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³ (0.45 MPa, Unannealed)	215	--	°C	ISO 75-2/B
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Ball Pressure Test	Pass	--		IEC 60695-10-2
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	300	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index (1.60 mm)	850	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	750	--	°C	IEC 60695-2-13
Additional Information				
干燥 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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