

EPLAMID 6 GFR UV 50 BK

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 6, reinforced with 50% of glass fiber, heat stabilized, UV stabilisers and lubricated for injection moulding. Eplamid 6 GFR 50 UV is used in all sectors of industry, offering a perfect balance of thermal and mechanical properties. This material is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
		Lubricant		
		UV stabilizer		
Features		Good UV resistance		
		Thermal Stability		
		Lubrication		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.54	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	0.30	--	%	ISO 294-4
Flow direction: 3.00mm	0.20	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	50	--	%	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)	13500	13300	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	205	190	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	13300	12800	MPa	ISO 178
Flexural Stress ² (23°C)	260	250	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	22	kJ/m ²	ISO 179/1eA

Notched Izod Impact (23°C)	17	19	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³ (1.8 MPa, Unannealed)	205	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B120
Melting Temperature (DSC)	220	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	HB		UL 94, IEC 60695-11-10, -20
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	260		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	120°C/h			

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