

EPLAMID 6 CFR 50 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 66, reinforced with 50 % of carbon fiber, heat stabilized, lubricated for injection moulding.

Eplamid 6 CFR 50 is used in all sectors of industry, offering a perfect balance of thermal and mechanical properties.

This product is available in natural and in colours on request.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 50% filler by weight		
Additive	heat stabilizer		
	Lubricant		
Features	Thermal Stability		
	Lubrication		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.38 - 1.41	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction: 3.00mm	0.50	%	ISO 294-4
Flow direction: 3.00mm	0.20	%	ISO 294-4
Moisture Content	0.20	%	ISO 15512
Ash content-CARBON FIBER (550°C -10 min)	50.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	85 - 90		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500 - 11000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	160 - 190	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 - 3.0	%	ISO 527-2
Flexural Modulus (23°C)	9000 - 10500	MPa	ISO 178
Flexural Stress (23°C)	210 - 280	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11 - 16	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	11 - 16	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	200 - 230	°C	ISO 3146

Flammability	Nominal Value	Test Method
Flame Rating (1.60 mm)	HB	UL 94
Additional Information		
TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.		
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	2.0 - 4.0	hr
Processing (Melt) Temp	260	°C

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Recommended distributors for this material

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