EPLAMID 6 CFR 10 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 66, reinforced with 10 % of carbon fiber, heat stabilized, lubricated for injection moulding.
Eplamid 6 CFR 10 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, 10% 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)	1.18 - 1.21	g/cm³	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-CARBON FIBER (550°C -10 min)	10.0	wt%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 23°C)	84 - 88		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	6000 - 7000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	105 - 145	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 - 4.0	%	ISO 527-2
Flexural Modulus (23°C)	5500 - 6000	MPa	ISO 178
Flexural Stress (23°C)	90.0 - 130	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0 - 9.0	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	6.0 - 9.0	kJ/m²	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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