

EPLAMID 6 GFR 5 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 6, reinforced with 5% of glass fiber, heat stabilized, lubricated for injection moulding.
Eplamid 6 GFR 5 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, 5.0% filler by weight		
Additive		heat stabilizer		
		Lubricant		
Features		Thermal Stability		
		Lubrication		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.0	--	%	ISO 294-4
Flow direction: 3.00mm	0.70	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	5.0	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	81	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3200	2600	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	85.0	65.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	4.0	8.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	3000	2300	MPa	ISO 178
Flexural Stress ² (23°C)	145	130	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)	185	--	°C	ISO 75-2/B
Vicat Softening Temperature	195	--	°C	ISO 306/B120
Melting Temperature (DSC)	215	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method

Flame Rating (1.60 mm)	HB	--	UL 94, IEC 60695-11-10, -20
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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	260	°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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