

EPLAMID 6 GFR 40 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 6, reinforced with 40% of glass fiber, heat stabilized, lubricated for injection moulding.
Eplamid 6 GFR 40 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, 40% 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)	1.43	--	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	40	--	%	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)	11000	10500	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	190	180	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	10500	9750	MPa	ISO 178
Flexural Stress ² (23°C)	250	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	21	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)	215	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method

Flame Rating (1.60 mm)	HB	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	280	°C

NOTE

1. 2.0 mm/min
2. 2.0 mm/min
3. 120°C/h

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