

EPLAMID 6 GI0 15 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Flame retardant polyamide 6 reinforced with 15% of glass fiber, impact modified , heat stabilized for injection moulding.
Eplamid 6 GI0 15 is used in all sectors of industry, offering a good impact strength for mechanical properties, with rating UL94 V0 and glow-wire at 960°C.
This material is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Additive		Impact modifier		
		heat stabilizer		
		Flame retardancy		
Features		Impact modification		
		Impact resistance, good		
		Thermal Stability		
		Flame retardancy		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	0.90	--	%	ISO 294-4
Flow direction: 3.00mm	0.60	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	15	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	82	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5200	4900	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	80.0	74.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	5.0	10	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	5100	5000	MPa	ISO 178
Flexural Stress ² (23°C)	140	120	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	16	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	15	17	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature (DSC)	215	--	°C	ISO 3146
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.00 mm)	V-0	--		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index (3.00 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (3.00 mm)	750	--	°C	IEC 60695-2-13
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	280		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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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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