

EPLAMID 6 FX0 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Flame retardant polyamide 6 for injection moulding.
Halogen free flame retardant grade, compliance with RoHs derivatives, with rating UL94 V0 and glow-wire at 960°C, which is used in many sectors of industry.
This material is available in natural and in colours on request.

General Information				
Additive	Flame retardancy			
Features	Halogen-free			
	Flame retardancy			
RoHS Compliance	RoHS compliance			
Appearance	Available colors			
	Natural color			
Processing Method	Injection molding			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.4	--	%	ISO 294-4
Flow direction: 3.00mm	1.2	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
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)	3000	2650	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	65.0	55.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	5.0	10	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2750	2350	MPa	ISO 178
Flexural Stress ² (23°C)	105	90.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	9.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	5.0	8.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³				

0.45 MPa, not annealed	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	95.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	195	--	°C	ISO 306/B120
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 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	260		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	120°C/h			

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