

EPLAMID 6 CBR 40 NC

Polyamide 6

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polyamide 6, reinforced with 40 % of glass bead, heat stabilize, lubricated for injection moulding.

Eplamid 6 CBR 40 offers a good surface aspect, low warpage, with good dimensional stability which is used in many sectors of industry.

This material is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass beads, 40% filler by weight		
Additive		heat stabilizer		
		Lubricant		
Features		Good dimensional stability		
		Low warpage		
		Thermal Stability		
		Lubrication		
Appearance		Available colors		
		Natural color		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.40	--	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	40	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	85	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	4800	3900	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	78.0	68.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	4.0	8.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	4200	3600	MPa	ISO 178
Flexural Stress ² (23°C)	120	100	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	9.0	kJ/m ²	ISO 179/1eA

Notched Izod Impact (23°C)	6.0	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	90.0	--	°C	ISO 75-2/A
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
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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