

EPIMIX PBT GV0 10 NC

Polybutylene Terephthalate
EPSAN Plastik SAN. ve TiC. A.S.

Message:

EPIMIX PBT, Flame retardant, reinforced with 10% of glass fiber, heat stabilized, lubricated for injection moulding.
EPIMIX PBT GV0 10 ,Halogenated , is used in all sectors of industry , compliance with RoHS derivatives, with rating UL94 V0 , offering a perfect balance of thermal and mechanical properties.
This product is available in natural and in colours on request.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 10% filler by weight		
Additive	heat stabilizer			
	Lubricant			
	Flame retardancy			
Features	Halogenated			
	Thermal Stability			
	Lubrication			
	Flame retardancy			
RoHS Compliance		RoHS compliance		
Appearance	Available colors			
	Natural color			
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.52	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.1	--	%	ISO 294-4
Flow direction: 3.00mm	0.40	--	%	ISO 294-4
Moisture Content	0.20	--	%	ISO 15512
Ash Content	10	--	%	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)	5100	4800	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	85.0	75.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	4500	4300	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)	7.0	8.0	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	6.0	7.0	kJ/m²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	200	--	°C	ISO 75-2/A
Vicat Softening Temperature	205	--	°C	ISO 306/B120
Melting Temperature (DSC)	220	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	200	--	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
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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