

EPIMIX PBT CBR 20 NC

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

Message:
Polybutylene Terephthalate, reinforced with 25% of glass bead, for injection molding.
EPIMIX PBT CBR 20 , is used in all sectors of industry, compliance with RoHs derivatives.

General Information				
Filler / Reinforcement		Glass beads, 20% filler by weight		
RoHS Compliance		RoHS compliance		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.45	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction: 3.00mm	1.3	--	%	ISO 294-4
Flow direction: 3.00mm	0.90	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.20	--	%	ISO 62
Ash Content	20	--	%	ISO 3451-4
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	80	--		ISO 868
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7200	6600	MPa	ISO 527-2/50
Tensile Stress (Break, 23°C)	110	90.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	12	1400	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	6400	6100	MPa	ISO 178
Flexural Stress ² (23°C)	150	130	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ISO 180/1A
-40°C	6.0	--	kJ/m ²	ISO 180/1A
23°C	7.0	8.0	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ³ (0.45 MPa, Unannealed)	205	--	°C	ISO 75-2/B
Vicat Softening Temperature	215	--	°C	ISO 306/B120
Melting Temperature (DSC)	220	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method

Flame Rating (1.60 mm) HB --

UL 94, IEC 60695-11-10,
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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	260	°C

NOTE

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

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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

