EPIMIX PBT NC 10

Polybutylene Terephthalate **EPSAN**

Technical Data

Product Description

EPIMIX PBT, heat stabilized and lubricated for injection moulding.

EPIMIX PBT is used in all sectors of industry, has and excellent surface finish, low warpage and all around excellent mechanical properties.

This material is available in natural and colours on request.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
Additive	Heat Stabilizer	Lubricant	
Features	 Heat Stabilized Low Warpage Lubricated Outstanding Surface Finish 		
Appearance	Colors Available Natural Color		
Processing Method	 Injection Molding 		
Resin ID	PBT UNFILLED		

Physical	Nominal Value Unit	Test Method
Density (23°C)	1.31 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	28 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
Across Flow : 2.00 mm	2.0 %	
Flow : 2.00 mm	1.8 %	
Water Absorption		ISO 62
Saturation, 23°C	0.50 %	
Equilibrium, 23°C, 50% RH	0.25 %	
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	2900 MPa	ISO 527-1/1
Tensile Stress (Break, 23°C)	60.0 MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	> 50 %	ISO 527-2/50
Flexural Modulus ² (23°C)	2500 MPa	ISO 178
Flexural Stress ² (23°C)	85.0 MPa	ISO 178
mpact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	ISO 179/1eU
Notched Izod Impact Strength (23°C)	8.0 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	No Break	ISO 180/1U
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	160 °C	ISO 75-2/B
1.8 MPa, Unannealed	60.0 °C	ISO 75-2/A
Melting Temperature ³	225 °C	ISO 11357-3
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+13 ohms	ASTM D257
Comparative Tracking Index (Solution A)	600 V	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating (0.8 mm)	HB	UL 94 IEC 60695-11-10, -20

Injection	Nominal Value Unit
Drying Temperature - Desiccant Dryer	120 to 140 °C
Drying Time	2.0 to 4.0 hr

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Injection	Nominal Value Unit
Suggested Max Moisture	0.10 %
Rear Temperature	230 to 240 °C
Middle Temperature	235 to 250 °C
Front Temperature	235 to 250 °C
Nozzle Temperature	240 to 260 °C
Processing (Melt) Temp	220 to 270 °C
Mold Temperature ⁴	> 80 °C
Injection Pressure	70.0 to 100 MPa
Holding Pressure	80.0 MPa

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 mm/min

³ 10°K/min

⁴ For different grades values of 90-110°C are preferred.



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Where to Buy

Supplier

EPSAN Bursa, Bursa Turkey Telephone: +90-224-261-2020 Web: https://epsan.com/

Distributor

Omya Specialty Materials Inc. Telephone: Customer Service: (800) 937-3877; Sales & Product Management: +1-470-677-8945 Web: https://specialty-materials-us.omya.com/ Availability: North America



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