

EPOPLEN PP CFR 10 NC

Polypropylene

EPSAN Plastik SAN. ve TiC. A.S.

Message:

Polypropylene, reinforced with 10% of carbon fiber, suitable for injection moulding.
This product is available in natural and in colours on request.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Appearance	Available colors		
	Natural color		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	0.890 - 1.00	g/cm³	ISO 1183
Ash content-CARBON FIBER (550°C -10 min)	10.0	wt%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 23°C)	76 - 79		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1200 - 1500	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	20.0 - 50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	4.0 - 8.0	%	ISO 527-2
Flexural Modulus (23°C)	1300 - 1600	MPa	ISO 178
Flexural Stress (23°C)	30.0 - 60.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0 - 9.0	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	5.0 - 9.0	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	155 - 170	°C	ISO 3146
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Additional Information			
TEST CONDITIONS: Laboratory conditions are 23 ±2°C and 45-55 % RH.			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	220	°C	

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