



DAN Polymer

Technical Data Sheet

PBT Compound: DANCMP 16242



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www.danpolymer.com
Rev01, Nov 2024

Description:

DANCMP 16242 is 15% glass fiber reinforced polybutylene terephthalate (PBT). It is characterized by a high stiffness and toughness as well as good chemical resistance. Furthermore, the material impresses with very good dimensional stability due to its low moisture absorption. Therefore, the material is perfectly suitable for technical precision components in applications in the automotive industry, mechanical engineering, household goods industries with increased humidity.

Advantages:

It is characterized by a high stiffness and toughness as well as good chemical resistance. Furthermore, the material impresses with very good dimensional stability due to its low moisture absorption.

Characteristics:

Appearance: Granular
Color: Natural
Carrier: PBT
Processing Method: Injection molding

Application:

The material is perfectly suitable for technical precision components in applications in the automotive industry, mechanical engineering, household goods industries with increased humidity.

Properties:

Parameters	Value	Unit	Test Method
Physical			
Ash Content	16 ± 2	%	ASTM D 5630
Density	1.4 ±0.02	gr/cm ³	ASTM D 1505
Mechanical D			
Tensile Strength @Peak	90 ± 2	MPa	ASTM D 638
Elongation @Break	4 ± 1	%	ASTM D 638
Notched Izod Impact(23°C)	8 ± 2	KJ/m ²	ASTM D 256
Elastic Modulus	3000 ± 200	MPa	ASTM D 638

*Test Condition: Samples were prepared by injection molding machine (100 Ton).



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Processing Conditions:

It is recommended that PBT should be dried at (80-85 °C) for 3 hours.

Injection Molding:

Rear Temp (°C)	Center Temp (°C)	Center Temp (°C)	Front Temp (°C)	Nozzle Temp (°C)
240-250	250-260	250-260	260-270	260-270
Melt Temp (°C)	Mold Temp (°C)	Filling Speed		
270	60-80	Mid-High		



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