

Polifil® PP T-2018 FDA

Polypropylene

The Plastics Group

Message:

Polifil® PP T-2018 FDA is a Polypropylene product filled with 20% talc. It is available in North America. Typical application: Food Contact Applications.
Primary characteristic: food contact acceptable.

General Information			
Filler / Reinforcement	Talc,20% Filler by Weight		
Features	Food Contact Acceptable		
Agency Ratings	FDA Food Contact, Unspecified Rating		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.50 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	0.0	%	ASTM D570
Ash Content	20	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus			ASTM D790
1% Secant	2070	MPa	
Tangent	2410	MPa	
Flexural Strength (Yield)	46.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Unnotched Izod Impact	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	127	°C	
1.8 MPa, Unannealed	65.6	°C	
Continuous Use Temperature ¹	93.0	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 104	°C	
Drying Time	1.0 to 2.0	hr	
Rear Temperature	199 to 210	°C	
Middle Temperature	210 to 221	°C	
Front Temperature	221 to 232	°C	

Nozzle Temperature	227 to 232	°C
Processing (Melt) Temp	204 to 260	°C
Mold Temperature	10.0 to 26.7	°C
Injection Rate	Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	50 to 100	rpm

NOTE

1. 2.5 mm

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