Polifil® PP T-40

Polypropylene Homopolymer

The Plastics Group

Message:

Polifil® T series compounds are homopolymer polypropylene resins reinforced with appearance-grade talc. They possess high flex modulus, high deflection temperature, good chemical resistance, and colorability, low shrinkage, and yield maximum stiffness combined with characteristic impact. These compounds are used in automotive applications, major appliances, electrical goods, and housewares, and other utility products. Standard processing techniques are applicable. Use this information as a guide to aid you in selecting the proper resin for your application. TPG will custom compound and fine-tune our formulations for your application.

General Information					
UL YellowCard	E84888-251660				
Filler / Reinforcement	Talc,40% Filler by Weight				
Features	Good Chemical Resistance				
	Good Colorability				
	Good Flexibility				
	Good Impact Resistance				
	Good Stiffness				
	High Heat Resistance				
	Homopolymer				
	Low Shrinkage				
Uses	Appliances				
	Automotive Applications				
	Electrical Parts				
	Household Goods				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.24	g/cm³	ASTM D792		
Melt Mass-Flow Rate (MFR) (230°C/2.16	0.0.10				
kg)	8.0 to 12	g/10 min	ASTM D1238		
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	77		ASTM D1415		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus (23°C)	2620	MPa	ASTM D638		
Tensile Strength (23°C)	31.7	MPa	ASTM D638		
Tensile Elongation			ASTM D638		
Yield, 23°C	3.5	%			
Break, 23°C	10	%			

Flexural Modulus - Tangent (23°C)	2760	MPa	ASTM D790
Flexural Strength (23°C)	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Gardner Impact (23°C, 12.7 mm)	0.565	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	138	°C	
1.8 MPa, Unannealed	79.4	°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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

