

Plaslube® J-50/30/TF/15

Polycarbonate

Techmer Engineered Solutions

Message:

Plaslube®J-50/30/TF/15 is a polycarbonate (PC) product, which contains a 30% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: engineering/industrial accessories.

Features include:

flame retardant/rated flame

ROHS certification

high strength

Good dimensional stability

Wear-resistant

General Information			
UL YellowCard	E253782-484566	E253782-484569	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Good dimensional stability		
	High strength		
	Good wear resistance		
	Lubrication		
Uses	Gear		
	Wear strip		
	Bearing		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.57	g/cm ³	ASTM D792
--	1570	kg/m ³	ISO 1183 ¹
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption			
24 hr	0.080	%	ASTM D570
Saturation	0.10	%	ISO 62 ²
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	8620	MPa	ASTM D638

--	10000	MPa	ISO 527-2 ³
Tensile Stress			
Fracture	120	MPa	ISO 527-2 ⁴
23°C	117	MPa	ASTM D638
Tensile Elongation			
Fracture, 23°C	3.0	%	ASTM D638
Fracture	3.0	%	ISO 527-2 ⁵
Flexural Modulus (23°C)	7580	MPa	ASTM D790
Flexural Strength (23°C)	165	MPa	ASTM D790
Compressive Strength	110	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.18		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	180	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	146	°C	ASTM D648
1.8 MPa	145	°C	ISO 75-2 ⁶
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	V-1		UL 94
Burning Behav. at 1.6mm nom. thickn. (1.50 mm, UL)	HB		ISO 1210 ⁷
Burning Behav. at thickness h (3.00 mm, UL)	V-1		ISO 1210 ⁸
Additional Information			
Compressive Strength, ASTM D695, 73°F: 16000 psi			
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030	%	
Rear Temperature	299 - 316	°C	
Middle Temperature	310 - 327	°C	
Front Temperature	304 - 321	°C	
Nozzle Temperature	304 - 321	°C	
Processing (Melt) Temp	304 - 332	°C	
Mold Temperature	71.1 - 87.8	°C	
Injection Rate	Moderate-Fast		
Back Pressure	0.345 - 0.689	MPa	
Injection instructions			
Screw Speed: MediumRecommendations for Molding and Tool Conditions: Well ventedMoisture Content, as received: Product is packaged at 0.2% or less.			
NOTE			

1.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
2.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
3.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
4.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
5.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
6.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
7.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???
8.	?????,?? ISO 10350 ??? 23°C/50%r.h. ???

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