

Plaslube® J-50/30/TF/15

 Techmer Polymer Modifiers - *Polycarbonate*
General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• PTFE Lubricant: 15%
Features	• Good Dimensional Stability • Lubricated • High Strength • Wear Resistant
Uses	• Bearings • Gears • Wear Strip
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.57		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.25E+6	psi	ASTM D638
Tensile Strength (73°F)	17000	psi	ASTM D638
Tensile Elongation (Break, 73°F)	3.0	%	ASTM D638
Flexural Modulus (73°F)	1.10E+6	psi	ASTM D790
Flexural Strength (73°F)	24000	psi	ASTM D790
Compressive Strength (73°F)	16000	psi	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.18		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	3.3	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	295	°F	ASTM D648
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-1		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.030	%
Rear Temperature	570 to 600	°F
Middle Temperature	590 to 620	°F
Front Temperature	580 to 610	°F
Nozzle Temperature	580 to 610	°F
Processing (Melt) Temp	580 to 630	°F
Mold Temperature	160 to 190	°F
Injection Rate	Moderate-Fast	



Back Pressure

50.0 to 100 psi

Injection Notes

Screw Speed: Medium

Recommendations for Molding and Tool Conditions: Well vented

Moisture Content, as received: Product is packaged at 0.2% or less.

Notes

¹ Typical properties: these are not to be construed as specifications.

