Plaslube® J-1/30/TF/15

Polyamide 66

Techmer Engineered Solutions

Message:

Plaslube®J-1/30/TF/15 is a polyamide 66 (nylon 66) 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
Lubrication

General Information	
UL YellowCard	E253782-484549
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	PTFE lubricant (15%)
Features	Lubrication
Uses	Gear Pulley Cam Bearing
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity				
--	1.52	--	g/cm³	ASTM D792
--	1490	--	kg/m³	ISO 1183 [1]
Molding Shrinkage - Flow (3.18 mm)	0.20	--	%	ASTM D955
Water Absorption				
24 hr	0.60	--	%	ASTM D570
Saturation	5.3	--	%	ISO 62 [2]
Balance	1.4	--	%	ISO 62 [3]

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	--		ASTM D785

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	7200	MPa	ISO 527-2 [4]
Tensile Stress				
Fracture	160	130	MPa	ISO 527-2 [5]
--	159	--	MPa	ASTM D638

Tensile Elongation				
Fracture	2.5	--	%	ASTM D638
Fracture	2.5	4.5	%	ISO 527-2 [6]
Flexural Modulus (23°C)	9310	--	MPa	ASTM D790
Flexural Strength				ASTM D790
--	238	--	MPa	ASTM D790
Fracture, 23°C	238	--	MPa	ASTM D790
Compressive Strength	193	--	MPa	ASTM D695
Shear Strength	68.9	--	MPa	ASTM D732
Coefficient of Friction				ASTM D1894
With steel-dynamic	0.25	--		ASTM D1894
With steel-static	0.20	--		ASTM D1894
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA [7]
-30°C	7.00	--	kJ/m^2	ISO 179/1eA
23°C	10.0	18.0	kJ/m^2	ISO 179/1eA
Notched Izod Impact (23°C, 3.18 mm)	130	--	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
0.45 MPa, not annealed	260	--	°C	ASTM D648
0.45 MPa	260	--	°C	ISO 75-2 [8]
1.8 MPa, not annealed	254	--	°C	ASTM D648
1.8 MPa	250	--	°C	ISO 75-2 [9]
Melting Temperature [10]	260	--	°C	ISO 11357-3 [11]
CLTE - Flow	4.3E-5	--	cm/cm/°C	ASTM D696
RTI Elec (1.47 mm)	65.0	--	°C	UL 746
RTI Imp (1.47 mm)	65.0	--	°C	UL 746
RTI (1.47 mm)	65.0	--	°C	UL 746
Flammability	**Dry**	**Conditioned**		**Test Method**
Flame Rating (1.59 mm)	HB	--		UL 94
Burning Behav. at 1.6mm nom. thickn. (1.50 mm, UL)	HB	--		ISO 1210 [12]
Burning Behav. at thickness h (1.50 mm, UL)	HB	--		ISO 1210 [13]

Additional Information

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Coefficient of Friction, Static, Thrust washer, 40psi, ambient temp.: 0.20Coefficient of Friction, Dynamic, Thrust washer, 40psi, 50 ft/min, ambient temp.: 0.25Limiting PV, Thrust washer, 100 FPM, ambient temperature: 2E4Compressive Strength, ASTM D695, 73°F: 28000 psi

Injection	**Dry**	**Unit**
Drying Temperature	82.2	°C
Drying Time	2.0 - 4.0	hr

Suggested Max Moisture	0.12	%
Rear Temperature	282 - 293	°C
Middle Temperature	288 - 299	°C
Front Temperature	277 - 288	°C
Nozzle Temperature	282 - 293	°C
Processing (Melt) Temp	282 - 304	°C
Mold Temperature	54.4 - 93.3	°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.Recomended Max Moisture: 0.12% down to 0.08%

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. ???
9.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
10.	10 °C/min
11.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
12.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???
13.	??????,?? ISO 10350 ??? 23°C/50%r.h. ???

Recommended distributors for this material

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