

LONGLITE® PMC T 376 JX

Phenolic

CCP Group

Message:

PMC T 376 JX is a wood flour-, mineral- and glassfiber-reinforced reinforced phenolic injection moulding compound with improved heat resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
	Mineral filler		
	Wood flour		
Features	Solvent resistance		
	Good formability		
	Good electrical performance		
	Good chemical resistance		
	Good wear resistance		
	Good weather resistance		
	Fuel resistance		
	Heat resistance, high		
	Oil resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage	0.50 - 1.0	%	ISO 2577
Water Absorption			
24 hr	0.10	%	ASTM D570
23°C, 24 hr	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	41.0	MPa	ISO 527-2
--	41.0	MPa	ASTM D638
Flexural Strength	93.0	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	182	°C	ASTM D648, ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257, IEC 60093
Volume Resistivity	4.0E+9	ohms · cm	ASTM D257, IEC 60093

Dielectric Strength (2.00 mm)	13	kV/mm	ASTM D149, IEC 60243-1
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.600 mm)	V-0		UL 94

Additional Information

Spiral Flow, CCP: 67 cmHeat Resistance, IEC 60216-P1, 2 hr: 200°CCharpy Impact, JIS K7111: 3.57 kg cm/cm²

Injection	Nominal Value	Unit
Rear Temperature	40.0 - 90.0	°C
Middle Temperature	40.0 - 90.0	°C
Front Temperature	40.0 - 90.0	°C
Nozzle Temperature	85.0 - 105	°C
Processing (Melt) Temp	110 - 120	°C
Mold Temperature	165 - 195	°C
Injection Rate	Moderate-Fast	
Back Pressure	< 1.00	MPa
Screw Speed	30 - 50	rpm

Injection instructions

Injection Time: 5 ± 2 secHardening Time: 15 ± 5 sec

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