LONGLITE® PMC T376JX

Chang Chun Plastics Co., Ltd. (CCP Group) - *Phenolic*

General Information

Product Description

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

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber	• Mineral	• Wood Flour
Features	• Chemical Resistant • Fuel Resistant • Good Electrical Properties	• Good Moldability • Good Weather Resistance • High Heat Resistance	• Oil Resistant • Solvent Resistant • Wear Resistant
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.57		ASTM D792
Density	1.57	g/cm³	ISO 1183
Molding Shrinkage	0.50 to 1.0	%	ISO 2577
Water Absorption (24 hr)	0.10	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.10	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	5950	psi	ASTM D638
Tensile Stress (Yield)	5950	psi	ISO 527-2
Flexural Strength	13500	psi	ASTM D790
Flexural Stress	13500	psi	ISO 178
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (264 psi, Unannealed)	360	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	360	°F	ISO 75-2/A
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+11	ohms	ASTM D257
Surface Resistivity	1.0E+11	ohms	IEC 60093
Volume Resistivity	4.0E+9	ohms·cm	ASTM D257
Volume Resistivity	4.0E+9	ohms·cm	IEC 60093
Dielectric Strength (0.0787 in)	340	V/mil	ASTM D149
Electric Strength (0.0787 in)	340	V/mil	IEC 60243-1
Arc Resistance	180	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.024 in)	V-0		UL 94

Additional Information

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

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	104 to 194	°F
Middle Temperature	104 to 194	°F
Front Temperature	104 to 194	°F
Nozzle Temperature	185 to 221	°F

Processing (Melt) Temp	230 to 248	°F
Mold Temperature	329 to 383	°F
Injection Rate	Moderate-Fast	
Back Pressure	< 145	psi
Screw Speed	30 to 50	rpm

Injection Notes

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

Notes

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