

**LONGLITE® PMC T376J**

 Chang Chun Plastics Co., Ltd. (CCP Group) - *Phenolic*
**General Information**
**Product Description**

PMC-T376J Black Phenolic is a two-stage, heat resistant/electrical molding material offering excellent mold process-ability and optimized Cure cycles. Typical applications include circuit breaker, electrical terminal strips, telecommunication application, etc.

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Fast Cure	• Good Processability	
	• Good Electrical Properties	• High Heat Resistance	
Uses	• Electrical Parts	• Electrical/Electronic Applications	• Telecommunications
UL File Number	• E59481		
Appearance	• Black		
Forms	• Granules		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.56		ASTM D792
Density	1.56	g/cm <sup>3</sup>	JIS K7112
Molding Shrinkage			
--	9.5	%	ASTM D955
--	9.5	%	JIS K6915
Water Absorption (24 hr)	0.16	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.16	%	JIS K6911
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength	8120	psi	ASTM D638
Tensile Stress	8120	psi	JIS K6911
Flexural Strength	13800	psi	ASTM D790
Flexural Stress	13800	psi	JIS K7203
Compressive Strength	30500	psi	ASTM D695
Compressive Stress	30500	psi	JIS K6911
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Impact Strength			
--	20	lbf/in	ASTM D256
--	20	lbf/in	JIS K7111
Izod Impact			
--	17	lbf/in	ASTM D256
--	17	lbf/in	JIS K6911
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	374	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	374	°F	JIS K7207
RTI Elec	302	°F	UL 746B
RTI Imp	302	°F	UL 746B
RTI Str	302	°F	UL 746B
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Volume Resistivity	1.0E+12	ohms·cm	JIS K6911
Dielectric Strength			



--	330 V/mil	JIS K6915
--	330 V/mil	ASTM D149
Arc Resistance	PLC 4	ASTM D495
Comparative Tracking Index (CTI)	PLC 4	UL 746A
Insulation Resistance		
-- <sup>2</sup>	1.0E+8 ohms	ASTM D257
-- <sup>2</sup>	1.0E+8 ohms	JIS K6915
-- <sup>3</sup>	1.0E+10 ohms	ASTM D257
-- <sup>3</sup>	1.0E+10 ohms	JIS K6915
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>
Flame Rating (0.024 in)	V-0	UL 94
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>
Shelf Life	12	month

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> (B)

<sup>3</sup> (N)

