

**LONGLITE® PMC T33**

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

**General Information**
**Product Description**

PMC T 33 is a granular wood flour and mineral reinforced phenolic product for compression moulding

**General**

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

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.37		ASTM D792
Density	1.37	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.80	%	JIS K6915
Water Absorption (24 hr)	0.50	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.50	%	ISO 62
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength	7980	psi	ASTM D638
Tensile Stress (Yield)	7980	psi	ISO 527-2
Flexural Strength	10900	psi	ASTM D790
Flexural Stress	10900	psi	ISO 178
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.250 in)	0.42	ft-lb/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	311	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	311	°F	ISO 75-2/A
Melting Temperature <sup>2</sup>	338	°F	ASTM D648
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+10	ohms	ASTM D257
Surface Resistivity	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Volume Resistivity	1.0E+12	ohms·cm	IEC 60093
Dielectric Strength (0.0787 in)	250	V/mil	ASTM D149
Electric Strength (0.0787 in)	250	V/mil	IEC 60243-1
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating (0.25 in)	V-0		UL 94

**Additional Information**

Monohole, CCP: 18 G  
 Density, ASTM D792 & ISO 1183: 1.36 to 1.37 g/cm<sup>3</sup>  
 Charpy Notched Impact Strength, ASTM D256: 2.7 kg cm/cm<sup>2</sup>

Compression Molding Conditions -  
 Preheating Temperature: 90 to 120°C  
 Mold Temperature: 150 to 180°C  
 Molding Pressure: 150 to 1000 bar

