

LONGLITE® PMC T310

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

PMC-T310 Black Phenolic is a two-stage, mechanical purpose molding material offering excellent mold process-ability and optimized Cure cycles. Typical applications include automotive interior parts, circuit breaker and drive train component, etc.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.53		ASTM D792
Density	1.53	g/cm ³	JIS K7112
Molding Shrinkage			
--	8.0	%	ASTM D955
--	8.0	%	JIS K6915
Water Absorption (24 hr)	0.15	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.15	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	8120	psi	ASTM D638
Tensile Stress	8120	psi	JIS K6911
Flexural Strength	18100	psi	ASTM D790
Flexural Stress	18100	psi	JIS K7203
Compressive Strength	31900	psi	ASTM D695
Compressive Stress	31900	psi	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Impact Strength			
--	25	lbf/in	ASTM D256
--	25	lbf/in	JIS K7111
Izod Impact			
--	21	lbf/in	ASTM D256
--	21	lbf/in	JIS K6911
Thermal	Nominal Value	Unit	Test Method
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
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Volume Resistivity	1.0E+13	ohms·cm	JIS K6911
Dielectric Strength			



--	360 V/mil	JIS K6915
--	360 V/mil	ASTM D149
Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (CTI)	PLC 4	UL 746A
Insulation Resistance		
-- ²	1.0E+9 ohms	ASTM D257
-- ²	1.0E+9 ohms	JIS K6915
-- ³	1.0E+11 ohms	ASTM D257
-- ³	1.0E+11 ohms	JIS K6915
Flammability	Nominal Value	Unit
Flame Rating (0.12 in)	V-0	UL 94
Additional Information	Nominal Value	Unit
Shelf Life	12	month

Notes

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

² (B)

³ (N)

