

LONGLITE® PMC T651

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

General Information
Product Description

PMC-T651 Black Phenolic is a two-stage, heat resistant/electrical molding material, offering excellent properties for commutators, such as good Break strength at high revolution, high insulation performance and dimensional stability at high temperature. etc.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Fast Cure	• Good Electrical Properties	• Medium Heat Resistance
	• Good Dimensional Stability	• 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	1.82		ASTM D792
Density	1.82	g/cm ³	JIS K7112
Molding Shrinkage			
--	2.5	%	ASTM D955
--	2.5	%	JIS K6915
Water Absorption (24 hr)	0.050	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.050	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	8700	psi	ASTM D638
Tensile Stress	8700	psi	JIS K6911
Flexural Strength	25400	psi	ASTM D790
Flexural Stress	25400	psi	JIS K7203
Compressive Strength	34800	psi	ASTM D695
Compressive Stress	34800	psi	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Impact Strength			
--	31	lbf/in	ASTM D256
--	31	lbf/in	JIS K7111
Izod Impact			
--	27	lbf/in	ASTM D256
--	27	lbf/in	JIS K6911
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	410	°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
Dielectric Strength			
--	380	V/mil	JIS K6915
--	380	V/mil	ASTM D149



Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (CTI)	PLC 3	UL 746A
Insulation Resistance		
-- 2	1.0E+10 ohms	ASTM D257
-- 2	1.0E+10 ohms	JIS K6915
-- 3	5.0E+11 ohms	ASTM D257
-- 3	5.0E+11 ohms	JIS K6915
Flammability	Nominal Value	Unit Test Method
Flame Rating (0.06 in)	V-0	UL 94
Additional Information	Nominal Value	Unit Test Method
Shelf Life	12	month

Notes

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

² (B)

³ (N)

