

LONGLITE® PMC T651

Phenolic

CCP Group

Message:

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 Information			
Features	Fast Cure		
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Moldability		
	Medium Heat Resistance		
Uses	Automotive Interior Parts		
	Electrical Parts		
	Electrical/Electronic Applications		
UL File Number	E59481		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.82	g/cm ³	ASTM D792, JIS K7112
Molding Shrinkage	2.5	%	JIS K6915, ASTM D955
Water Absorption			
24 hr	0.050	%	ASTM D570
23°C, 24 hr	0.050	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	60.0	MPa	ASTM D638, JIS K6911
Flexural Strength	175	MPa	ASTM D790, JIS K7203
Compressive Strength	240	MPa	ASTM D695, JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Impact Strength			
--	5.4	kN/m	ASTM D256
--	5.4	kN/m	JIS K7111
Izod Impact			
--	4.8	kN/m	ASTM D256
--	4.8	kN/m	JIS K6911
Shelf Life	12	month	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648, JIS K7207
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149, JIS K6915
Arc Resistance	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 3		UL 746
Insulation Resistance			
-- 1	5.0E+11	ohms	ASTM D257
-- 2	5.0E+11	ohms	JIS K6915
-- 3	1.0E+10	ohms	ASTM D257
-- 4	1.0E+10	ohms	JIS K6915
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
NOTE			
1.	(N)		
2.	(N)		
3.	(B)		
4.	(B)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

