

LONGLITE® PMC T391

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

General Information
Product Description

PMC-T391 Black Phenolic is a two-stage, high specific gravity molding material offering excellent dimensional stability and heat resistance. Typical applications include automobile interior parts and brake piston.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Features	• Good Dimensional Stability • High Heat Resistance • High Specific Gravity
Uses	• Automotive Applications • Automotive Interior Parts
UL File Number	• E59481
Appearance	• Black
Forms	• Granules
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	2.10		ASTM D792
Density	2.09	g/cm ³	JIS K7112
Molding Shrinkage			
--	1.5	%	ASTM D955
--	1.5	%	JIS K6915
Water Absorption (24 hr)	0.040	%	ASTM D570
Water Absorption (24 hr, 73°F)	0.040	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	10200	psi	ASTM D638
Tensile Stress	10200	psi	JIS K6911
Flexural Strength	17400	psi	ASTM D790
Flexural Stress	17400	psi	JIS K7203
Compressive Strength	33400	psi	ASTM D695
Compressive Stress	33400	psi	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Impact Strength			
--	20	lbf/in	ASTM D256
--	20	lbf/in	JIS K7111
Izod Impact			
--	17	lbf/in	JIS K6911
--	17	lbf/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	392	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	392	°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
Insulation Resistance		
-- ²	1.0E+11 ohms	ASTM D257
-- ²	1.0E+11 ohms	JIS K6915
-- ³	1.0E+12 ohms	ASTM D257
-- ³	1.0E+12 ohms	JIS K6915
Flammability	Nominal Value	Unit
Flame Rating (0.06 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)

