Plenco 07552 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07552 is a glass fiber reinforced novolac phenolic molding compound, exhibiting superior dimensional stability, good impact strength, and good electrical properties. Type ASTM 5948 MFH. UL recognized under component file E40654. 07552 is available in black.

General Information			
UL YellowCard	E40654-231636		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Impact resistance, good Good electrical performance		
Agency Ratings	ASTM D 5948, Type MFH		
UL File Number	E40654		
Appearance	Black		
Forms	Tumor		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.72	g/cm³	ASTM D792
Apparent Density	0.68	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.48	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	81		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	12300	MPa	ASTM D638
Tensile Strength	44.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	75.3	MPa	ASTM D790
Compressive Strength	155	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	31.0	J/m	ASTM D256
Notched Izod Impact	34	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	262	°C	ASTM D648
Continuous Use Temperature	187	°C	ASTM D794
CLTE - Flow	3.5E-5	cm/cm/°C	ASTM E831

Thermal Conductivity (100°C)	0.58	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.5E+12	ohms·cm	ASTM D257
Dielectric Strength [1]	13	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.90		ASTM D150
Dissipation Factor (1 MHz)	0.039		ASTM D150
Arc Resistance	184	sec	ASTM D495
Comparative Tracking Index (CTI)	200	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-0		UL 94
Oxygen Index	46	%	ASTM D2863
Additional Information			
The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard.The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638.The value listed as Mold Shrink, Linear-Flow, ASTM D955 was tested according to the ASTM D6289 standard.Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.11%Drop Ball Impact, PLENCO Method: 179 J/m			
Injection	**Nominal Value**	**Unit**	
Suggested Shot Size	20 - 80	%	
Rear Temperature	66.0 - 82.0	°C	
Front Temperature	82.0 - 99.0	°C	
Processing (Melt) Temp	104 - 115	°C	
Mold Temperature	165 - 182	°C	
Injection Pressure	6.20 - 11.0	MPa	
Back Pressure	0.300	MPa	
Screw Speed	< 60	rpm	
Cushion	3.00	mm	
Injection instructions			
Injection Time: 3-8 sec			
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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