Plenco 07556 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07556 is a glass fiber reinforced novolac phenolic molding compound, with good physical strengths and heat resistance along with excellent dimensional stability. UL recognized under component file E40654. 07556 is available in black.

General Information			
UL YellowCard	E40654-231637		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good dimensional stability Good strength Heat resistance, high		
UL File Number	E40654		
Appearance	Black		
Forms	Blank		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.82	g/cm³	ASTM D792
Apparent Density	0.83	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.10	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	94		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	16100	MPa	ASTM D638
Tensile Strength	76.0	MPa	ASTM D638
Tensile Elongation (Break)	0.70	%	ASTM D638
Flexural Modulus	15600	MPa	ASTM D790
Flexural Strength	137	MPa	ASTM D790
Compressive Strength	224	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	30.7	J/m	ASTM D256
Notched Izod Impact	33	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	253	°C	ASTM D648
Continuous Use Temperature	206	°C	ASTM D794
Thermal Conductivity (100°C)	0.54	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	5.2E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	9.1	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	6.60		ASTM D150
Dissipation Factor (1 MHz)	0.040		ASTM D150
Arc Resistance	156	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	V-1		UL 94
Oxygen Index	39	%	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: 0.05%Drop Ball Impact, PLENCO Method: 199 J/m			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	165 - 182	°C	
Back Pressure	0.300	MPa	
Screw Speed	< 60	rpm	
Injection instructions			
Transfer Time: 3-8 secTransfer Pressure: 5.5-6.9 MPaPreheating Temperature: 104-115°C			
NOTE			
1.	Method A (short time)		

Recommended distributors for this material

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