Plenco 07476 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07476 is a cotton flock filled resole phenolic molding compound, with improved physical strength, crack resistance, and is resistant to soap and detergent solutions at elevated temperatures. UL recognized under component file E40654. 07476 is available in black.

General Information			
UL YellowCard	E40654-100708443		
Filler / Reinforcement	Soft filling		
Features	Good cracking resistance Good strength Detergent resistance		
UL File Number	E40654		
Appearance	Black		
Forms	Particles		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.42	g/cm³	ASTM D792
Apparent Density	0.52	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.58	%	ASTM D955
Water Absorption (24 hr)	0.42	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	78		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7200	MPa	ASTM D638
Tensile Strength	56.0	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	81.1	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	26.3	J/m	ASTM D256
Notched Izod Impact	24	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	199	°C	ASTM D648
Continuous Use Temperature	195	°C	ASTM D794
CLTE - Flow	4.4E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	2.4E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	7.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	6.80		ASTM D150
Dissipation Factor (1 MHz)	0.085		ASTM D150
Arc Resistance	160	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Additional Information			
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: 0.42%Drop Ball Impact, PLENCO Method: 168 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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