Plenco 02308 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 02308 is a general purpose organic filled phenolic molding compound, offering improved heat resistance and optimized cure properties. UL recognized under component file E40654. 02308 is available in black or brown color.

General Information			
UL YellowCard	E40654-231584		
Filler / Reinforcement	Organic filler		
Features	Fast curing Heat resistance, high General		
Uses	General		
UL File Number	E40654		
Appearance	Brown Black		
Forms	Particles		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.43	g/cm³	ASTM D792
Apparent Density	0.64	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.61	%	ASTM D955
Water Absorption (24 hr)	0.31	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	86		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8000	MPa	ASTM D638
Tensile Strength	53.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	8160	MPa	ASTM D790
Flexural Strength	87.6	MPa	ASTM D790
Compressive Strength	207	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	19.9	J/m	ASTM D256
Notched Izod Impact	19	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	172	°C	ASTM D648

Continuous Use Temperature	204	°C	ASTM D794
CLTE - Flow	6.9E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	3.7E+11	ohms·cm	ASTM D257
Dielectric Strength [1]	12	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.40		ASTM D150
Dissipation Factor (1 MHz)	0.055		ASTM D150
Arc Resistance	143	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
Oxygen Index	26	%	ASTM D2863

Additional Information

The value listed as Mold Shrink, Linear-Flow, ASTM D955 was tested according to the ASTM D6289 standard.The value listed as Comparative Tracking Index, UL 746 was tested according to ASTM D3638.Post Shrinkage, ASTM D6289, 72hr, 120°C: 0.29%Heat Resistance, ASTM D794: 204°CDrop Ball Impact, PLENCO Method: 98 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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