

Plenco 00755 (Injection)

Melamine Phenolic
Plastics Engineering Co.

Message:

PLENCO 00755 is a melamine-phenolic copolymer molding compound offering excellent electrical and flame resistant properties. Type ASTM 5948 CMG, and UL recognized under component file E40654. 00755 is available only in brown.

General Information			
UL YellowCard	E40654-231580		
Features	Copolymer		
	Flame retardancy		
UL File Number	E40654		
Appearance	Brown		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm ³	ASTM D792
Apparent Density	0.57	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.76	%	ASTM D955
Water Absorption (24 hr)	0.36	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	73		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10400	MPa	ASTM D638
Tensile Strength	65.0	MPa	ASTM D638
Tensile Elongation (Break)	0.90	%	ASTM D638
Flexural Modulus	8640	MPa	ASTM D790
Flexural Strength	89.4	MPa	ASTM D790
Compressive Strength	161	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	20.2	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)	177	°C	ASTM D648
Continuous Use Temperature	151	°C	ASTM D794
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+12	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	7.7	kV/mm	ASTM D149

-- ²	5.0	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	7.10		ASTM D150
Dissipation Factor (1 MHz)	0.078		ASTM D150
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index (CTI)	525	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94

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, 240hr, 105°C: 1.06% Heat Resistance, ASTM D794: 151°C Drop Ball Impact, PLENCO Method: 118 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	150 - 177	°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)
2. Method B (step by step)

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