Plenco 07523 (Transfer)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07523 is a woodflour and cotton flock filled novolac phenolic molding compound, formulated for high impact industrial uses. UL recognized under component file E40654. 07523 is available in black.

General Information			
UL YellowCard	E40654-231633		
Filler / Reinforcement	Wood flour Soft filling		
Features	Impact resistance, high		
Uses	Industrial application		
UL File Number	E40654		
Forms	Particles		
Processing Method	Resin transfer molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm³	ASTM D792
Apparent Density	0.55	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.79	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	84		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	7520	MPa	ASTM D638
Tensile Strength	53.0	MPa	ASTM D638
Tensile Elongation (Break)	0.80	%	ASTM D638
Flexural Modulus	6780	MPa	ASTM D790
Flexural Strength	68.1	MPa	ASTM D790
Compressive Strength	194	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)	158	°C	ASTM D648
Continuous Use Temperature	200	°C	ASTM D794
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM E831
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.8E+11	ohms·cm	ASTM D257

Dielectric Strength [1]	11	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.90		ASTM D150
Dissipation Factor (1 MHz)	0.054		ASTM D150
Arc Resistance	133	sec	ASTM D495
Comparative Tracking Index (CTI)	150	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: 0.27%Drop Ball Impact, PLENCO Method: 118 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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