Plenco 07579 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 07579 is a fast curing, woodflour filled, novolac phenolic molding compound, formulated for industrial applications that do not require a smooth finish. UL recognized under component file E40654. 07579 is available in black.

General Information			
UL YellowCard	E40654-231638		
Filler / Reinforcement	Wood flour		
Features	The surface finish is not smooth.		
Uses	Industrial application		
UL File Number	E40654		
Appearance	Black		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.38	g/cm³	ASTM D792
Apparent Density	0.59	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.98	%	ASTM D955
Water Absorption (24 hr)	0.37	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	82		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8310	MPa	ASTM D638
Tensile Strength	49.0	MPa	ASTM D638
Tensile Elongation (Break)	0.66	%	ASTM D638
Flexural Modulus	6780	MPa	ASTM D790
Flexural Strength	68.2	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	18.5	J/m	ASTM D256
Notched Izod Impact	20	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	152	°C	ASTM D648
Continuous Use Temperature	190	°C	ASTM D794
CLTE - Flow	4.6E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.38	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	4.2E+11	ohms·cm	ASTM D257

Dielectric Strength [1]	8.8	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.40		ASTM D150
Dissipation Factor (1 MHz)	0.063		ASTM D150
Arc Resistance	126	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating (5.10 mm)	V-1		UL 94
Oxygen Index	27	%	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: 0.45%Drop Ball Impact, PLENCO Method: 139 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	165 - 182	°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)

Recommended distributors for this material

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