Plenco 04527 (Injection)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 04527 is a heat resistant, mineral and flock filled phenolic molding compound, offering excellent mechanical strength, and resistance to cracking in a wet-dry environment. UL recognized under component file E40654. 04527 is available in black.

General Information					
UL YellowCard	E40654-231615				
Filler / Reinforcement	Mineral filler				
	Soft filling				
Features	Good cracking resistance				
	Good strength				
	Heat resistance, high				
UL File Number	E40654				
Appearance	Black				
Forms	Particles				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.58	g/cm³	ASTM D792		
Apparent Density	0.62	g/cm³	ASTM D1895		
Molding Shrinkage - Flow	0.52	%	ASTM D955		
Water Absorption (24 hr)	0.39	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (E-Scale)	58		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	10200	MPa	ASTM D638		
Tensile Strength	54.0	MPa	ASTM D638		
Tensile Elongation (Break)	0.80	%	ASTM D638		
Flexural Modulus	8630	MPa	ASTM D790		
Flexural Strength	79.8	MPa	ASTM D790		
Compressive Strength	140	MPa	ASTM D695		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength	20.5	J/m	ASTM D256		
Notched Izod Impact	19	J/m	ASTM D256		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (1.8		9.5	ACTA (DC ()		
MPa, Unannealed)	204	°C	ASTM D648		
Continuous Use Temperature	203	°C	ASTM D794		

CLTE - Flow	3.4E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.55	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.8E+12	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
1	9.5	kV/mm	ASTM D149
²	7.3	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	6.60		ASTM D150
Dissipation Factor (1 MHz)	0.16		ASTM D150
Arc Resistance	181	sec	ASTM D495
Comparative Tracking Index (CTI)	175	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-1		UL 94
Oxygen Index	31	%	ASTM D2863
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Additional Information

The value listed as Thermal Conductivity, ASTM C177 was tested according to the ASTM E1461 standard. 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: 0.33% Drop Ball Impact, PLENCO Method: 144 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	МРа	
Back Pressure	0.300	МРа	
Screw Speed	< 60	rpm	
Cushion	3.00	mm	
Injection instructions			
Injection Time: 3-8 sec			
NOTE			
1.	Method A (short time)		

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Method B (step by step)

Recommended distributors for this material

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