Plenco 03554 (Compression)

Phenolic

Plastics Engineering Co.

Message:

PLENCO 03554 is an organic reinforced phenolic molding compound modified with PTFE to offer improved coefficient of friction values. 03554 is available in black. It is UL listed. 03554 is a re-number of 06554 formulation.

General Information			
UL YellowCard	E40654-231598		
Filler / Reinforcement	Organic filler		
Additive	PTFE lubricant		
Features	Low friction coefficient		
Appearance	Black		
Forms	Particles		
Processing Method	Compression molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.43	g/cm³	ASTM D792
Apparent Density	0.57	g/cm³	ASTM D1895
Molding Shrinkage - Flow	0.43	%	ASTM D955
Water Absorption (24 hr)	0.43	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (E-Scale)	75		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8000	MPa	ASTM D638
Tensile Strength	50.0	MPa	ASTM D638
Tensile Elongation (Break)	0.70	%	ASTM D638
Flexural Modulus	7670	MPa	ASTM D790
Flexural Strength	81.6	MPa	ASTM D790
Compressive Strength	153	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	22.5	J/m	ASTM D256
Notched Izod Impact	23	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	157	°C	ASTM D648
Continuous Use Temperature	190	°C	ASTM D794
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM E831
Thermal Conductivity (100°C)	0.37	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]	16	kV/mm	ASTM D149
-- [2]	9.0	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.60		ASTM D150
Dissipation Factor (1 MHz)	0.042		ASTM D150
Arc Resistance	73.0	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	25	%	ASTM D2863
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: 0.15%Heat Resistance, ASTM D794: 190°CDrop Ball Impact, PLENCO Method: 155 J/m			
Injection	**Nominal Value**	**Unit**	
Mold Temperature	165 - 182	°C	
Back Pressure	0.300	MPa	
Screw Speed	< 60	rpm	
Injection instructions			
Mold Close Time: 3-8 sec			
NOTE			
1.	Method A (short time)		
2.	Method B (step by step)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China