

Plenco 3554 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Woodflour Filled

Material Notes:

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. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-3554-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.580 g/cc	0.0210 lb/in ³	ASTM D1895
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.45 %	0.45 %	ASTM D570
Linear Mold Shrinkage	0.0044 cm/cm	0.0044 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	75	75	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.89 %	0.89 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	7.70 GPa	1120 ksi	ASTM D790
Compressive Strength	155 MPa	22500 psi	ASTM D695
Izod Impact, Notched	0.226 J/cm	0.423 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.224 J/cm ²	1.07 ft-lb/in ²	ASTM D256
Impact	150	150	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	55.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM E1461
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	

Maximum Service Temperature, Air Thermal Properties	190 °C Metric	374 °F English	Heat Resistance; ASTM D570D Comments
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	25 %	25 %	ASTM D2863
Shrinkage	0.143 %	0.143 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.10e+12 ohm-cm	2.10e+12 ohm-cm	ASTM D247
Dielectric Constant	4.5	4.5	ASTM D150
Dielectric Strength	16.2 kV/mm	411 kV/in	Short Time; ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150
Arc Resistance	57 sec	57 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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