

## Plenco 5482 Phenolic, Granular, Transfer Molded

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

### Material Notes:

PLENCO 05482 is an organic reinforced phenolic molding compound formulated with graphite to improve the abrasion resistance. 05482 is available in black and brown. 05482 is not recommended for electrical insulating applications. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-5482-Phenolic-Granular-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-5482-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in <sup>3</sup>	ASTM D1895
Density	1.43 g/cc	0.0517 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.247 %	0.247 %	ASTM D570
Linear Mold Shrinkage	0.0061 cm/cm	0.0061 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	0.41 %	0.41 %	ASTM D638
Tensile Modulus	8.70 GPa	1260 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Strength	215 MPa	31200 psi	ASTM D695
Izod Impact, Notched	0.180 J/cm	0.337 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.194 J/cm <sup>2</sup>	0.923 ft-lb/in <sup>2</sup>	ASTM D256
Impact	96	96	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	201 °C	394 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	186 °C	367 °F	ASTM D648
Oxygen Index	28.5 %	28.5 %	ASTM D2863
Shrinkage	0.25 %	0.25 %	72 hr, 120°C; ASTM D1299

## **Contact Songhan Plastic Technology Co.,Ltd.**

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