



Plastics and Ramming Mixes

Product Data

PACO PLASTIC BLOCK

PACO PLASTIC BLOCK is a high heat duty, air-setting, 2900°F service temperature plastic refractory shape that is extruded and de-aired. It is widely used throughout the metals, power, cement and lime producing industries. The chemical purity and long time hot load characteristics of **PACO PLASTIC BLOCK** are outstanding.

Long Time Load Test: 3 Percent after 100 hours

(Deformation under 25 psi load @ 2500°F.)

Maximum Service Temperature: 2910°F (1600°C)

Bulk Density: (As installed) 147lbs/ft³ (2352 kg/m³)

Modulus of Rupture:

220°F (105°C)	100-300 psi (7-21 kg/cm ²)
1800°F (980°C)	50-200 psi (4-14 kg/cm ²)
2550°F (1400°C)	400-600 psi (28-42 kg/cm ²)
2700°F (1480°C)	400-600 psi (28-42 kg/cm ²)

Cold Crushing Strength:

220°F (105°C)	250- 500 psi (18-35 kg/cm ²)
1800°F (980°C)	600-1000 psi (42-70 kg/cm ²)
2550°F (1400°C)	800-1200 psi (56-84 kg/cm ²)
2700°F (1480°C)	1000-1400 psi (70-98 kg/cm ²)

Drying Shrinkage (green - 220°F): approximately 1.5%

Permanent Linear Change (%):

Based on Dried length

1800°F (980°C)	+0.2 to +0.6
2550°F (1400°C)	+0.6 to +1.1
2700°F (1480°C)	+1.1 to +1.6

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	6.2	0.89
1500°F (815°C)	6.8	0.95
2000°F (1095°C)	7.5	1.08

Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Alkalies
33.7	64.2	0.9	0.8	0.4

Standard Packaging: 32 - 100 lb. cartons per pallet

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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