



Plastics and Ramming Mixes

Product Data

RESCORAM A-80

RESCORAM A-80 is a high alumina, air-setting, 3300°F service temperature plastic refractory that is used throughout the metals, power, cement and lime producing industries where higher temperature requirements demand a higher PCE or more refractory material.

Maximum Service Temperature:	3300°F (1815°C)
Long Time Load Test: (Deformation under 25 psi load @ 2600°F)	3.8 Percent after 100 hours
Bulk Density: (As installed)	165 lbs/ft ³ (2656 kg/m ³)
Pyrometric Cone Equivalent:	37+
Modulus of Rupture:	
220°F (105°C)	200-400 psi (14-28 kg/cm ²)
1800°F (980°C)	200-400 psi (14-28 kg/cm ²)
2550°F (1400°C)	650-850 psi (46-60 kg/cm ²)
2700°F (1480°C)	750-950 psi (53-67 kg/cm ²)

Drying Shrinkage (green - 220°F): 1.2 - 1.4%

Permanent Linear Change(%):

Based on dried length

1800°F (980°C)	-0.2 to +0.2
2550°F (1400°C)	-0.6 to +0.0
2700°F (1480°C)	-0.1 to +0.4
2910°F (1600°C)	1.0 to +0.4

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	10.2	1.47
1500°F (815°C)	10.5	1.51
2000°F (1095°C)	10.7	1.54

Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Alkalies
79.1	16.8	1.5	2.4	0.2

Standard Packaging: 64 – 55 lb. carton 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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