



Plastics and Ramming Mixes

Product Data

RESCORAM 60

RESCORAM 60 is a high alumina, phosphate-bonded plastic that offers excellent resistance to alkali attack. Phosphate bonding allows **RESCORAM 60** to develop high strength at lower temperatures.

Maximum Service Temperature: 3000°F (1650°C)

Bulk Density: (As installed) 170 lbs/ft³ (2720 kg/m³)

Modulus of Rupture:

1500°F (815°C)	800-1200 psi (56- 84 kg/cm ²)
1700°F (927°C)	800-1200 psi (56- 84 kg/cm ²)
2000°F (1095°C)	1000-1400 psi (70- 98 kg/cm ²)
2500°F (1370°C)	1000-1300 psi (70- 91 kg/cm ²)
2910°F (1600°C)	1200-1500 psi (84-105 kg/cm ²)

Cold Crushing Strength:

1500°F (815°C)	3000-5000 psi (210-350 kg/cm ²)
1700°F (927°C)	3000-5000 psi (210-350 kg/cm ²)
2000°F (1095°C)	3500-5500 psi (245-385 kg/cm ²)
2500°F (1370°C)	3500-6000 psi (245-420 kg/cm ²)
2910°F (1600°C)	3500-6000 psi (245-420 kg/cm ²)

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
1000°F (540°C)	7.8	1.12
1500°F (815°C)	8.2	1.18
2000°F (1095°C)	8.6	1.24

Drying Shrinkage: 1.2 - 1.5%

Permanent Linear Change (%):

Based on Dried length

1500°F (815°C)	+0.2 to +0.3
1700°F (927°C)	+0.2 to +0.5
2000°F (1095°C)	+0.3 to +0.5
2500°F (1340°C)	+1.6 to +1.8
2910°F (1600°C)	+1.4 to +1.6

Erosion Loss: ASTM C-704 Less than 10.0 cc
(Typical: 6-8 cc)

Typical Chemical Analysis(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	TiO ₂	Alkalies	P ₂ O ₅
61.3	29.8	1.4	0.1	2.2	0.6	4.6

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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