



Plastics and Ramming Mixes

Product Data

RESCORAM 80SC

RESCORAM 80 SC is an 80% silicon carbide, phosphate-bonded plastic material that is used throughout the metals, power, cement, and lime producing industries. Its chemical bond develops high strength at lower temperatures. This property makes it ideal for application where there is insufficient heat to develop the ceramic bond required in heat-setting plastics.

Maximum Service Temperature: 2800°F (1538°C)

Bulk Density:

220°F (105°C) 150-151 lb/ft³ (2403-2418 kg/cm²)
1500°F (815°C) 147-150 lb/ft³ (2355-2400 kg/cm²)

Cold Crushing Strength:

1500°F (815°C) 5000 - 5500 psi (350-385 kg/cm²)
2000°F (1095°C) 7800 - 8800 psi (546-616 kg/cm²)
2500°F (1370°C) 9500 -11000 psi (665-770 kg/cm²)

Modulus of Rupture:

1500°F (815°C) 1000 - 1300 psi (70-91 kg/cm²)
2000°F (1095°C) 1700 - 2050 psi (119-144kg/cm²)
2500°F (1370°C) 1600 - 2000 psi (112-140 kg/cm²)

Permanent Linear Change (%):

(220°F to fired)
1500°F (815°C) -0.10 to +0.03
2000°F (1095°C) +0.15 to +0.50
2500°F (1370°C) +0.20 to +0.25

Typical Chemical Analysis(%):

SiC	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Na ₂ O	MgO	P ₂ O ₅
77.9	11.8	6.4	0.1	0.1	0.1	0.1	3.5

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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