

Sharadaa Ceramics REFPLAST 60 60% Alumina Plastic

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Nature of bond: Chemical-Ceramic Installation: Pneumatic ramming Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-REFPLAST-60-60-Alumina-Plastic.php

Physical Properties	Metric	English	Comments
Density	2.50 g/cc	0.0903 lb/in ³	Specification, After dried @ 110 ^o C/24 hrs
	2.52 g/cc	0.0910 lb/in ³	Typical value, After dried @ 110 ^o C/24 hrs
Grain Size	<= 4000 μ m	<= 4000 μ m	

Mechanical Properties	Metric	English	Comments
Compressive Strength	>= 9.81 MPa	>= 1420 psi	Cold Crushing, Specification, After drying @ 110 ^o C
	@Temperature 110 ^o C, Time 86400 sec	@Temperature 230 ^o F, Time 24.0 hour	
	10.8 MPa	1560 psi	Cold Crushing, Typical Value, After drying @ 110 ^o C
	@Temperature 110 ^o C, Time 86400 sec	@Temperature 230 ^o F, Time 24.0 hour	
	>= 24.5 MPa	>= 3560 psi	Cold Crushing, Specification, After firing @ 800 ^o C
	@Temperature 800 ^o C, Time 10800 sec	@Temperature 1470 ^o F, Time 3.00 hour	
	26.0 MPa	3770 psi	Cold Crushing, Typical Value, After firing @ 800 ^o C
	@Temperature 800 ^o C, Time 10800 sec	@Temperature 1470 ^o F, Time 3.00 hour	
	>= 34.3 MPa	>= 4980 psi	Cold Crushing, Specification, After firing @ 1100 ^o C
	@Temperature 1100 ^o C, Time 10800 sec	@Temperature 2010 ^o F, Time 3.00 hour	
	37.7 MPa	5460 psi	Cold Crushing, Typical Value, After firing @ 1100 ^o C
	@Temperature 1100 ^o C, Time 10800 sec	@Temperature 2010 ^o F, Time 3.00 hour	
	>= 44.1 MPa	>= 6400 psi	Cold Crushing, Specification, After firing @ 1400 ^o C
	@Temperature 1400 ^o C,	@Temperature 2550 ^o F,	

Mechanical Properties	Time 10800 sec Metric	Time 3.00 hour English	Comments
	47.6 MPa	6900 psi	Cold Crushing, Typical Value, After firing @ 1400Å°C
	@Temperature 1400 Å°C, Time 10800 sec	@Temperature 2550 Å°F, Time 3.00 hour	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.53 W/m-K	10.6 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 600 Å°C	@Temperature 1110 Å°F	
	1.55 W/m-K	10.8 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 400 Å°C	@Temperature 752 Å°F	
	1.57 W/m-K	10.9 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 200 Å°C	@Temperature 392 Å°F	
Maximum Service Temperature, Air	1600 Å°C	2910 Å°F	

Component Elements Properties	Metric	English	Comments
Al2O3	60 %	60 %	
Fe2O3	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Base Material	Synthetic Alumina Base	
PCE Orton	33	
Permanent Linear Change	-0.17	Typical Value, After drying @ 1100Å°C/3hrs
	-0.25	Typical Value, After drying @ 1400Å°C/3hrs
	-1.5 - 1.5%	Specification, After drying @ 1100Å°C/3hrs
	-1.5 - 1.5%	Specification, After drying @ 1400Å°C/3hrs
Refractoriness	1763Å°C	

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