

RUBBER CERAMIC LINER SPEC

Aluminum oxide ceramic for rubber wear liner

Material Designation			P90
Material Properties			
PROPERTIES	TEST METHOD	UNITS	
Bulk Density	ASTM-C20-87	Kg/M ³	3600
		lbs./ft. ³	224.5
		g/cc	3.60
Apparent Porosity	ASTM-C20-87	%	0
Flexural Strength	ASTM-C674-88	MPa	334.4
		Kpsi	48.5
Elastic Modulus	ASTM-C674-88	GPa	190.0
		Mpsi	27.2
Compressive Strength	ASTM-C773-88	MPa	1461.7
		Kpsi	212
Tensile Strength	ACMA#4	Kpsi	18.5
		MPa	129.223
Vicker's Hardness	ASTM-E384-89	VHN	1136
Knoop Hardness	ASTM-E384-89	KHN	1014
Rockwell C Scale	—	Rc	71
MOH	Scale	—	8.0-9.0
Fracture Toughness	Vicker's Indentation	MPa/M ²	3.9
Crystal Size	—	MICRON	3.0-5.0
Linear C.T.E.	—	PPM/C	
		rt-200	5.65
		rt400	6.2
		rt-600	6.57
		rt-800	7.46
		rt-1000	7.7

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