



Technical Data Sheet 6025

PJP Grade Graphite

Product Overview

An economical low ash material with excellent thermal shock resistance, GRAFSTAR™ PJP graphite is well suited for the fine machining detail required in molds for casting metal shapes.

Applications

- Rail wheel molds

Sizes

Standard Sizes	
44" x 15"	1118 x 381 mm
44" x 23"	1118 x 584 mm
50" x 15"	1270 x 381 mm
50" x 23"	1270 x 584 mm
52" x 23"	1321 x 584 mm

Typical Properties at Room Temperature*

Characteristic	Unit	WG	AG	Unit	WG	AG	Unit	WG	AG
Density	lbs/ft ³	102		g/cm ³	1.63		g/cm ³	1.63	
Maximum Particle Size	inches	0.03		mm	0.76		mm	0.76	
Specific Resistance	10 ⁻⁴ Ωin	3.66	0.0	μΩm	9.3	0.0	μΩm	9.3	0.0
Flexural Strength	psi	1960	0	kg/cm ²	137	0	MPa	14	0
Young's Modulus	10 ⁶ psi	1.0	0	kg/mm ²	701	0	GPa	6.9	0.0
Tensile Strength	psi	1255	0	kg/cm ²	88	0	MPa	9	0
Compressive Strength	psi	4960	0	kg/cm ²	348	0	MPa	34	0
Permeability	Darcy	0.5	0	Darcy	0.5	0	Darcy	0.5	0
Hardness	Rockwell "R"	32		Rockwell "R"	32		Rockwell "R"	32	
C.T.E. (RT to 100 °C)	10 ⁻⁶ /°F	2.0	0.0	10 ⁻⁶ /°K	3.6	0.0	10 ⁻⁶ /°K	3.6	0.0
Thermal Conductivity	BTU-ft/hr ft ² °F	75	0	W/mK	130	0	W/mK	130	0
Ash Content	%	0.12		%	0.12		%	0.12	

Notes:

* Properties listed are typical and cannot be used as accept/reject specifications