

Celceram® PV20A-5 MICRON

SPECIFICATIONS

Celceram® PV20A-5 Micron is comprised of solid calcium aluminosilicate glass spheres. The source for these complex inorganic glass structures is the inorganic materials that have coalesced into spheres during the combustion process of coal in power generating processes. As such, all Celceram® products are considered to be 100% post-industrial recycled content as defined by USGBC’s LEED program. The NSF 140 standard and the UL Environment’s GREENGUARD CERTIFICATION recognize Celceram® as 100% pre-consumer.

While coal derived fly ash is ubiquitous, its performance as a functional filler in polymer systems requires unique characteristics and tight production specifications. Typical specifications are described by particle size distribution, specific gravity and screen analysis. Additional parameters identified to be critical to an application can be monitored if requested by the customer.

Celceram® PV20A-5 Micron Physical Specifications

	Average or Typical Value	Units
Median	4.75	Micron
Mean	7	Micron
D50	4.75	Micron
D95	21.42	Micron
LOI	0.3	%
Oil Adsorption	15	%
Viscosity	3300	cP

Chemical Specifications

	AVG	Unit	Procedure
SiO ₂	32.95	%	XRF
Al ₂ O ₃	19.35	%	XRF
Fe ₂ O ₃	5.78	%	XRF
CaO	27.07	%	XRF
MgO	6.65	%	XRF
SO ₃	1.95	%	XRF
Na ₂ O	2.00	%	XRF
K ₂ O	0.43	%	XRF
Available Alkalies	0.00	%	FP (AA)
Moisture	0.05	%	Wt. Loss
SG	2.70	%	He Pycnometry

Notes: X-Ray Fluorescence provides relative concentrations of the chemical elements found within the glass matrix. The values are then converted to the oxide form of the elements for reporting purposes. Viscosity is calculated using a Severs Rheometer at 80 psi in a linseed oil base loaded to 81% w/w filler level.

For more information or answers to questions about the use of fly ash in specific applications, contact your nearest Boral Resources Technical Sales Representative or call 1-770-684-0102

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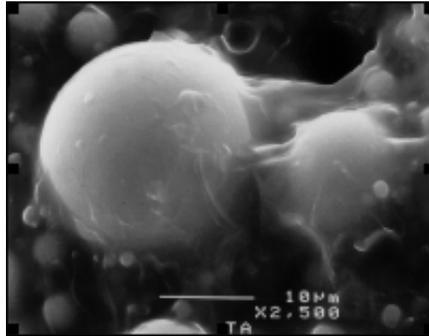
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Celceram® PV20A-5 Micron has been successfully used as a functional filler in polyolefin, PVC, asphalt, reactive polyurethane, SBR and latex based chemistries.

The unique particle size distribution contributes to an improved packing factor. This increase in packing factor permits Celceram® PV20A-5 Micron to be loaded to higher levels compared to traditional fillers while maintaining or improving the physical characteristics of the finished polymer system.

Some improved characteristics that have been observed are improved fire ratings, decreased process viscosities which translate into faster production rates, improved dimensional stability, decreased product weight, and improved economics (cost savings to manufacturer due to increased filler loadings).

Contact Mitchell Smith, Technical Sales Representative, (951) 216-4130 for additional information.



Celceram® Dispersed in a Polymer Matrix