

Powder Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Density - Tap	ASTM D4164	0.46 g/cm ³	0.46 g/cm ³
Specific Gravity @ 20 °C	ASTM D792	0.86 g/cm ³	0.86 g/cm ³
Moisture Absorption @ 20 °C 65% R H.	ASTM D570	0.06 %	0.06 %
Ash Content	ASTM D482	0.02 %	0.02 %

Mechanical Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Tensile Strength, Ultimate	ASTM D638	2.84 MPa	412 psi
Tensile Modulus	ASTM D638	1604 MPa	232 ksi
Impact Strength (notched izod)	ASTM D256	<11 J/m	<0.21 ft. lb/in
Impact Strength (unnotched izod)	ASTM D256	14 J/m	0.26 ft- lb/in

Thermal Properties

MEASUREMENT	METHOD/CONDITION	METRIC	US
Glass Transition (T _g) Polystyrene	ASTM D3418	89 °C	192 °F
Melting Point (M _p) - Wax	ASTM	> 63 °C	>145 °F
Flash Point (Cleveland Open Cup)	Polystyrene Wax	350 °C	662 °F
Autoignition Point	Polystyrene	> 200 °C	> 392 °F
		410 °C	770 °F

Surface Finish

MEASUREMENT	METHOD/CONDITION	METRIC	US
Upward Surface			
As Processed (Ra)	Mitutoyo Surfptest-402	13 μm	13 μm
After Polishing (Ra)	Mitutoyo Surfptest-402	3 μm	3 μm

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