

Datasheet of Dielectrite E5V-204 SMC - (Polyester+VE) - IDI Composites International

Material Data Center offers the following functions for **Dielectrite E5V-204 SMC**:

unit conversion, PDF datasheet print, comparison with other plastics

Check here, which other [Dielectrite](#) datasheets, application examples or technical articles are available in Material Data Center

Use the following short links to get directly to the properties of interest in this datasheet:

[Processing/Physical Characteristics](#) - [Mechanical properties](#) - [Thermal properties](#) - [Electrical properties](#) - [Other properties](#)

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Processing/Physical Characteristics	Value	Unit	Test Standard
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ASTM Data

Mold Shrinkage (MD)	0.001	mm/mm	ASTM D 955
Density (73°F)	1780	kg/m ³	ASTM D 792

Mechanical properties	Value	Unit	Test Standard
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ASTM Data

Tensile Strength	75.8	MPa	ASTM D 638
Compressive Strength	186	MPa	ASTM D 695
Flexural Modulus	11031.6	MPa	ASTM D 790
Flexural Strength	159	MPa	ASTM D 790
Izod Impact notched (1/8 in)	0.641	kJ/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
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ISO Data

Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	2.0	mm	IEC 60695-11-10
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	2.0	mm	IEC 60695-11-20

ASTM Data

UL 94 Flame rating	V-0	-	UL 94
Thickness tested	3.05	mm	-
DTUL @ 264 psi	260	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
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ASTM Data

Dielectric Strength (Short Time)	15	kV/mm	ASTM D 149
Arc Resistance	180	s	ASTM D 495

Other properties	Value	Unit	Test Standard
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ISO Data

Water absorption	0.1	%	Sim. to ISO 62
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Delivery form

Sheet Molding Compound

Special Characteristics

Flame retardant, U.V. stabilized or stable to weather

Regional Availability

North America, Europe, Asia Pacific, South and Central America

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