

## Electrical insulation materials

### Nomex® Type 994 | FI 15040

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**Composition:** Nomex® Type 994 | FI 15040 is a densified, rigid material which characterizes by its composition and very good dimensional stability. Furthermore Nomex® Type 994 | FI 15040 qualifies by high oil absorption. Nomex® Type 994 | FI 15040 is similar to Nomex® Type 410 FI 15000 in regard to many properties.

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**Properties:** Nomex® Type 994 | FI 15040 characterizes by high oil absorption. Nomex® Type 994 | FI 15040 is similar to Nomex® Type 410 FI 15000 in regard to many properties. Furthermore Nomex® Type 994 | FI 15040 is high resistant in compressibility and can be used with nearly all common electrical varnishes, adhesives as well as other electrical components and different liquids like for example those which are used in the transformer construction.

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**Applications:** Nomex® Type 994 | FI 15040 is very well suitable for usage as gap filler or as structure component in liquid filled systems.

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**Standard colour:** Nomex® Type 994 | FI 15040 is delivered in white colour.

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**Delivery forms:** Nomex® Type 994 | FI 15040 is available in different thicknesses from 1.0 to 9.6 mm. Furthermore Nomex® Type 994 | FI 15040 can be delivered as die-cut or formed parts, cuts or sheets on rolls or as reels. Other delivery forms upon customer request.

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## Nomex® Type 994 | FI 15040

Properties	Test method	Unit	Value	
Thickness	-	mm	3.2	6.4
Weight	ASTM D3394	kg/m <sup>2</sup>	3.66	7.15
Density	-	g/cc	1.15	1.13
Dielectric constant at 60 Hz	ASTM D150	-	3.5	
Dissipation factor at 60 Hz	ASTM D150	10 <sup>-3</sup>	7	10
Volume resistivity	ASTM D257	Ohm-m	10 <sup>14</sup>	
Surface resistivity	ASTM D257	Ohm <sup>2</sup>	10 <sup>17</sup>	
Tensile strength machine direction	ASTM D828	kN/cm <sup>2</sup>	10.7	11.0
Tensile strength cross direction	ASTM D828	kN/cm <sup>2</sup>	9.3	7.2
Elasticity module machine direction	ASTM D790	kN/cm <sup>2</sup>	360	415
Elasticity module cross direction	ASTM D790	kN/cm <sup>2</sup>	255	365
Flexural strength machine direction	ASTM D790	kN/cm <sup>2</sup>	9	
Flexural strength cross direction	ASTM D790	kN/cm <sup>2</sup>	8	
Impact resistance machine direction	ASTM D256	Joules/m	545	355
Impact resistance cross direction	ASTM D256	Joules/m	375	285
Shearing strength	ASTM D732	kN	43	68
Rigidity	ASTM D2240	Shore D	84	
Elongation machine direction	ASTM D828	%	18	22
Elongation cross direction	ASTM D828	%	17	20
Shrinkage at 240°C machine direction	ASTM D3392	%	0.0	0.2
Shrinkage a240°C cross direction	ASTM D3392	%	0.0	0.2
Compressibility	ASTM D3392	%	1.1	1.2
Compression set	ASTM D3392	%	0.3	0.2

**Trademark information:** Nomex® is a registered trademark of the company DuPont.

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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