

## Technical films

### Flexiso® FCR FI 16060

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**Description:** Flexiso® FCR FI 16060 is a heat bondable corona resistant film, coated with FEP on one side.

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**Properties:** Flexiso® FCR FI 16060 combines excellent thermal, electrical and chemical properties of PI film and FEP resin. It also offers corona resistance, heat sealing effects and thermal conductivity.

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**Applications:** Flexiso® FCR FI 16060 is primarily used as electrical insulation in rail traction, industrial motors and generators, transformers, magnet wires, coils, etc.

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**Delivery forms:** Flexiso® FCR FI 16060 is available as die-cut part, on a roll or tape, as well as customized cut and self-adhesive. Other delivery forms and dimensions upon customer request.

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## Flexiso® FCR FI 16060

Properties	Unit	Value			
		38	50	63	75
Nominal thickness	µm	38	50	63	75
Structure					
FEP	µm	12,5	25,4	12,5	25
PI		25,4	25,4	50	50
FEP					
Tensile Strength, MD	MPa	≥90	≥85	≥90	≥90
Elongation, MD	%	≥50	≥50	≥50	≥50
Dielectric strength	MV/m	≥120	≥120	≥120	≥120
Peel strength	N/25cm	≥6	≥6	≥6	≥6
Surface resistivity	Ω	≥1,0x10 <sup>13</sup>	≥1,0x10 <sup>13</sup>	≥1,0x10 <sup>13</sup>	≥1,0x10 <sup>13</sup>
Volume resistivity	Ω.cm	≥1,0x10 <sup>15</sup>	≥1,0x10 <sup>15</sup>	≥1,0x10 <sup>15</sup>	≥1,0x10 <sup>15</sup>
Dielectric constant		2,5 ~ 3,9	2,5 ~ 3,9	2,5 ~ 3,9	2,5 ~ 3,9
Dielectric factor		≤4,0x10 <sup>-3</sup>	≤4,0x10 <sup>-3</sup>	≤4,0x10 <sup>-3</sup>	≤4,0x10 <sup>-3</sup>
Corona Resistance at 1KV, 20 KHz	h	≥85	≥85	≥85	≥85

**Trademark information:** Flexiso® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the 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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