

CHR[®] R SERIES

Skived PTFE Pressure Sensitive Adhesive Tape

CHR R-Series is manufactured by **Saint-Gobain[®]** Performance Plastics Corporation, Tape Solutions business, and comes with a highly modified skived PTFE (polytetrafluoro-ethylene) film coated with a pressure sensitive acrylic or silicone adhesive that can sustain high heat ranges as noted in this data sheet.

Features/Benefits

The high heat ranges and anti-stick properties of Teflon[™] allow these products to be used as a release surface. Extremely durable and abrasion resistant as a result of patented modifications to the polymer during processing, R-Series tapes will not curl or wrinkle. They are hard-wearing and easy to apply. These tapes will not leave an adhesive residue when removed, resulting in less equipment down time.

Availability

Factory stock for R-Series tapes is in master rolls 33m × 381mm (36 yd × 15 in). Rolls can be slit in widths from 6.35mm to 381mm (0.25 in to 15 in). These materials can also be supplied with a release liner if needed.

Applications

R-Series tapes are ideal for protecting extrusion and laminating equipment during the plastic extrusion coating process, which combines plastic films with various substrates, most commonly paper. During this process, plastics are extruded onto the substrate as it passes between a neoprene-covered roller and a cooling roller. **CHR R-Series** tapes are used as a roller wrapping tape to protect the exposed ends of the neoprene roller from molten plastic which is over-coated wider than the substrate. Specifically, R263 can be used for wire harnessing applications in aerospace and is designed to meet Airbus ABS5330 and MIL A-A-59474 specifications.



CHR R Series Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Product Number	R263	R253	R233
Backing Material	Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type	Silicone	Silicone	Acrylic
Total Thickness mm (mil)	0.120 (4.4)	0.127 (5.0)	0.127 (5.0)
Backing Thickness mm (mil)	0.060 (2.4)	0.076 (3.0)	0.076 (3.0)
Adhesive Thickness mm (mil)	0.051 (2.0)	0.051 (2.0)	0.051 (2.0)
Adhesion to Steel N/cm (oz/in)	2.7 (25)	3.8 (35)	2.7 (25)
Tensile Strength N/cm (lb/in)	35 (20)	70 (40)	70 (40)
Elongation (% at break)	<200	150+	150+
Dielectric Strength (volts)	>9,500	>11,000	>11,000
Operating Temperature °C (°F)	-73 to +260 (-100 to +500)	-73 to +260 (-100 to +500)	-40 to +177 (-40 to +350)
Specifications	Airbus ABS5330 MIL A-A-59474		

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