

CHR[®] 2255

Skived, High Modulus PTFE Pressure Sensitive Adhesive Tape

CHR 2255 is manufactured by **Saint-Gobain[®]** Performance Plastics Corporation, Tape Solutions business, and comes with modified high-modulus PTFE film coated with silicone adhesive that can sustain high heat ranges as noted in this data sheet.

Features/Benefits

CHR 2255's most outstanding properties are its high dielectric and tensile strength, which make it an extremely durable insulation tape. The high-temperature properties of the PTFE and silicone adhesive allow 2255 to perform in continuous temperatures up to 260°C (500°F). As high-modulus tape, **CHR 2255** also exhibits low elongation which enables it to be applied with automatic wrapping equipment. The other outstanding features of 2255 include chemical inertness, as well as low-friction, anti-stick and non-toxic properties, making it the right material for numerous applications. 2255 meets MIL-I-23594C U.S. Government specifications, which is superseded by MIL Spec, A-A-59474 Type 1.

Availability

Factory stock for 2255-2 is in master log form 33 m × 584 mm (36 yd × 23 in), for 2255-3 33 m × 483 mm (36 yd × 19 in) and 2255-5 33 m × 406 mm (36 yd × 16 in). Rolls can be slit in widths ranging from 6.35 mm (0.25 in) to full width.

CHR 2255 is also available with backside etched as HM352 product. **CHR 2255-2** is also available with a pigmented black adhesive — properties are unchanged.

Applications

The excellent dielectric properties of this product combined with its high-temperature adhesive coating make 2255 an excellent choice as a high-temperature insulation product.

CHR 2255 is used in phase insulation for bundling end turns, spot bundling and anchoring breakouts. The aerospace industry also uses 2255 to protect airframe wire harnesses.



CHR 2255 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	2255-2	2255-3	2255-5	2255-6
Backing Material	Film-PTFE	Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type	Silicone	Silicone	Silicone	Silicone
Total Thickness mm (mil)	0.089 (3.5)	0.114 (4.5)	0.165 (6.5)	0.191 (7.5)
Backing Thickness mm (mil)	0.051 (2.0)	0.076 (3.0)	0.127 (5.0)	0.152 (6.0)
Adhesive Thickness mm (mil)	0.038 (1.5)	0.038 (1.5)	0.038 (1.5)	0.038 (1.5)
Adhesion to Steel N/cm (oz/in)	3.3 (30)	3.8 (35)	4.4 (40)	4.9 (45)
Tensile Strength N/cm (lb/in)	53 (30)	79 (45)	105 (60)	114 (65)
Dielectric Strength (volts)	9,000	11,000	15,000	18,000
Elongation (% at break)	150	175	200	200
Operating Temperature °C (°F)	-73 to +260 (-100 to +500)	-73 to +260 (-100 to +500)	-73 to +260 (-100 to +500)	-73 to +260 (-100 to +500)
Color	Grey	Grey	Grey	Grey

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