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Silicone Release Materials

Technical Information – 2 Side Polyethylene Coated Release Papers

2PE90 Machine finished kraft papers with an LDPE coating applied to both sides.
2PE120 These are available either 1 or 2 side silicone coated, with a release
2PE140 differential if required (by convention, the easier release coating is applied
2PE160 to the glossier side of the paper). The polyethylene coatings give the release
 paper excellent dimensional stability and lay flat characteristics as well as
 providing a barrier to solvent absorption. The nature of LDPE means that
 these papers are not suitable for applications where high temperature
 resistance is required.

Physical Properties

Grade ⁽¹⁾	Base Weight (g/m ²)	Thick-ness (µ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours ⁽²⁾	Release Levels ⁽³⁾						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
2PE90/nm	15+60+15	104	5.0	2.0	300	370	WU	●	●	●	●	●		1 or 2 side siliconised
2PE90/nm	15+64+15	86	4.7	2.0	400	480	A	●	●	●	●	●		1 or 2 side siliconised
2PE120/nm	20+80+20	138	6.4	3.4	800	960	W	●	●	●	●	●		1 or 2 side siliconised
2PE140/nm	20+100+20	159	8.0	4.2	1200	1300	W	●	●	●	●	●		1 or 2 side siliconised
2PE160/nm	20+120+20	181	9.6	5.0	1200	1400	W	●	●	●	●	●		1 or 2 side siliconised

(1) *n* and *m* represent Release Levels, and can be different to achieve a release differential, e.g. 2PE90/14.

(2) Key to colours: W = White, U = Unbleached, A = Amber

(3) Typical Release Figures:

Release Level	1	2	3	4	6
Release Force (g/25mm)	15	25	40	50	60

Tested according to CTM1, based on FINAT test method FTM10 using T24 Takstrip with a separation rate of 300mm/minute at an angle of 180° on samples aged at 60°C for 16 hours under a pressure of 1 psi.

(4) All products can be back printed or printed under silicone to customer requirements

(5) Product can be supplied in reels up to 1600mm wide, coils down to 12mm wide or in sheets from 50mm x 50mm up to 1300mm x 1500mm as appropriate

The values quoted above are typical and the information is given in good faith without warranty. All goods are supplied in accordance with our standard conditions of sale, and no recommendations for specific application or use are offered: users are recommended to satisfy themselves on the suitability of a particular quality for their own application.

We reserve the right to use raw materials from more than one source, unless specifically negotiated, whilst maintaining a commercial match within the terms of this specification.

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