

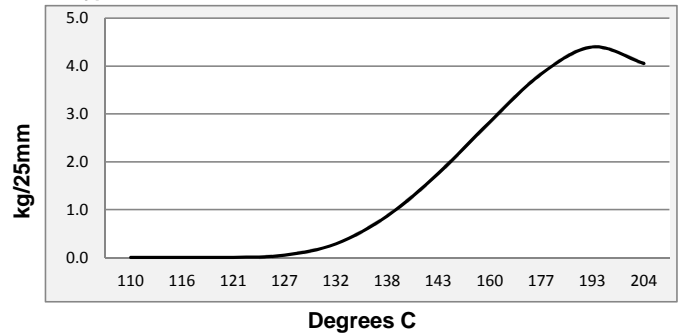
Technical Data Sheet

METRIC

### DR42 (Clear & White)

is a single layer, **Directional Tear Polypropylene Retort Sealant film**, specifically designed to be the sealant layer of a retort pouch, while providing excellent Directional Tear properties. This film is best suited for applications that require exceptionally high seal strengths. This film is designed to be used in high-retort applications (under 135°C) and is available in either a Clear or a White version. The standard film design calls for corona treatment on one side, but custom treatment is available.

Typical Heatseal Curve: Lamination 48G PET/adh/250G DR42



#### KEY FEATURES

- Exceptional Linear Tear Properties
- Exceptionally High Heat Seal Strength
- Passes all MRE all Specifications standards

#### APPLICATIONS

- Gusseted and Non-Gusseted Pouches
- Stand-up Pouch applications
- For use in any Retort Lamination
- Film/Board Lamination Sealant Web

**THICKNESSES AVAILABLE FROM 1.2mil TO 4.0mil (sample thicknesses and yields shown below)**

Thickness	Gauge Mil, (0.001") ~micron, (μ)	200	220	240	280	320	400
Nominal Yields	m <sup>2</sup> /kg	21.76	19.78	18.13	15.54	13.60	10.88

TYPICAL VALUES	UNITS	ASTM	2.00 mil	2.20 mil	2.40 mil	2.80 mil	3.20 mil	4.00 mil
Haze, (Clear Film)	%	D1003	22	24	26	30	35	40
Opacity (White Film)	%		40	46	52	58	60	80
Tensile Strength @ Break	MD TD	D882	28.1	28.1	28.1	28.1	28.1	28.1
	kg/mm <sup>2</sup>		2.5	2.5	2.5	2.5	2.5	2.5
Elongation @ Break	MD TD	D882	40	40	40	40	40	40
	%		800	800	800	800	800	800
Heat Shrinkage @ 100°C 10 min	MD TD		2.0	2.0	2.0	2.0	2.0	2.0
	%		0.5	0.5	0.5	0.5	0.5	0.5
Coefficient of Friction	Static Dynamic	D1894	0.75	0.75	0.75	0.75	0.75	0.75
	μs μd		0.50	0.50	0.50	0.50	0.50	0.50
Electrostatic Treatment	Dynes	D2578	38-40	38-40	38-40	38-40	38-40	38-40
Heat Seal Temperature @ Full Strength (3.3lbs, 1500g)	°F °C		360	360	360	360	360	360
			340	340	340	340	340	340
Heat Seal strength Temp, Dwell & Thickness variable	lb/in kg/25mm		30+	30+	30+	30+	30+	30+
MVTR @ 100°F, 90% RH	g/100 in <sup>2</sup> /day		0.19	0.18	0.16	0.14	0.12	0.1
MVTR @ 38°C, 90% RH	g/m <sup>2</sup> /day		2.945	2.79	2.48	2.17	1.86	1.55

TreaTear® is a registered trademark of Toray Plastics (America), Inc., for its line of Directional Tear Polypropylene Sealant Web films.

#### GENERAL PROPERTIES

Nominal Yield	m <sup>2</sup> /kg	43.52	Specific Gravity	0.905
Cold-crack Temperature		-65°F (-54°C)	FDA Compliant	Yes
Melt Temperature		275°F (135°C)	CONEG Compliant	Yes

#### ORDERING INFORMATION

Standard Roll Formation: Treated surface on inside of roll		Maximum Width	62" (1575mm)
Put-Up (+/- 1/8" (3mm) increments)	40 to 62" (1015 to 1575mm)	Roll Diameter	12" to 28" (305mm to 710mm)
Slitting (+/- 1/16" (1.5mm) increments)	Minimum 1" (25mm)	Core Sizes	3" or 6" (76.2mm or 152.4mm)

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