

# Stretchene RP1685 and RP1903

Basell's new high performance PP grades used in customers' Injection Stretch Blow Moulding (ISBM) applications

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Stretchene RP1685 and RP1903 are two grades that are part of Basell's new family of resins for use in customers' Injection Stretch Blow Moulding (ISBM) applications. The products offer alternative solutions in terms of rigidity, high transparency, impact strength and high production output, which customers often request for use in a wide range of ISBM applications. Stretchene resins can offer an innovative alternative to traditional materials such as PET or glass.

**For further information about Stretchene grades contact [isbm@basell.com](mailto:isbm@basell.com)**

## Stretchene RP1685 & RP1903 Grades vs. Traditional Materials

COMPARATIVE PROPERTIES	Stretchene RP1685	Stretchene RP1903	PET	GLASS
Density	++	++	o	--
Rigidity	+	o	++	++
Bottle weight*	++	+	++	--
Preform Production Speed	+	+	++	n/a
Bottle Production Speed (2-step)	+	+	+	n/a
Process Stability	+	+	+	n/a
Fast Topload development	++	+	++	n/a
Low Production Energy	+	+	o	--
Dryer (Energy & Floor Space)	++	++	--	n/a
Transparency at Bottle Wall (Haze)	+	++	++	++
High Definition Engraving	++	++	o	-
Impact Strength	o	+	++	--
Risk of Splinters	++	++	++	--
Stress Crack Resistance	++	++	o	++
Eco-Efficiency	++	++	++	--
Suitability for Microwave/ Hot Fill	+	+	-	++
Quiet Squeezability	+	++	-	--
Water Vapour Barrier	+	+	o	++

\*depends upon design and application

## Stretchene RP1685 & RP1903 Properties

Stretchene Resin Properties	RP 1685	RP 1903
Density (g/cm <sup>3</sup> )	0.9	0.9
Melt Flow Rate (g/10min) (230/2.16)	10	11
Tensile Modulus (MPa)	1450	1150
Heat Deflection Temperature HDT/B (°C)	109	72
Impact Strength (23°C/ Charpy Notched) - kJ/m <sup>2</sup>	4.0	6.0



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