

PRODUCT INFORMATION

LyondellBasell's new RM2073 resin

Breakthrough clarity and stiffness



LyondellBasell's new RM2073 resin, part of a specialty resins family produced using proprietary single-site catalysts, offers potential solutions for customers injection molding applications.

The resin sets new industry standards in clarity and stiffness, offering opportunities for converters and end users to extend the boundaries of application performance.

Customers use RM2073 to produce a wide range of injection molding applications, including food and beverage packaging as well as drinking cups, DVD cases and technical products.

Its excellent mechanical performance and outstanding transparency make LyondellBasell's new RM2073 a good alternative to materials such as glass or amorphous transparent polymers like polycarbonate, polymethylmethacrylate or styrolux.

Successful replacement of traditional materials using RM2073 have been reported by customers based on the new grade's improved shatter resistance. The resin enables the substitution of more costly or less functionally clear materials.

The new RM2073 delivers weight savings through density advantages, and its improved shear thinning characteristics enable the production of thinner walls.

In addition, the new RM2073 has demonstrated faster cycle times and "soft" acoustic properties, and can offer improvements in aesthetics. Improved cycle times can help reduce costs.

Properties versus LyondellBasell's development grade

	PS	PC	PMMA	SAN	PET
Density	-	--	-	-	--
Design flexibility	-	--	--	-	-
Thermal resistance (max operating T)	--	++	--	--	-
Scratch resistance	+	+	++	+	+
Environmental friendliness	-	--	--	--	-
Chemical resistance	-	-	--	-	-
O ₂ barrier properties	=	=	++	+	++
H ₂ O barrier properties	--	--	-	-	-

Relative to LyondellBasell's Random Copolymer: - worse; -- much worse; + better; ++ much better; = equal

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www.lyondellbasell.com

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LB 031 PI e 0408

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