

Line-up of Mitsui products to European Market

Mitsui Chemicals Europe GmbH

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Classification			Product Name	Grade Name/ type	Key Feature	FDA(*1)		EU Food	REACH
						Direct	Indirect	EU 10/2011	(*2)
Coating Materials	Polyolefin	Water base	Chemipearl <i>*Non-surfactant Dispersion</i>	W / PE Wax	*High slipping agent with less dosage	□	○	○	○
				V / EVA	*Compatible btw anti-blocking and heat sealing	□	○	○	○
				S / Ionomer	*Excellent heat sealing to metal/paper	△/□	○	○	○
				A / PO Elastomer	*Compatible btw anti-blocking and heat sealing	□	○	○	○
				M / LDPE	*Good anti-blocking agent	□	○	○	○
		Solvent base	Unistole	R / Modified Polyolefin	*Excellent heat sealing to metal/PP	△/□	○	○	△
				XP04 / Modified Polyolefin	*Excellent adhesion to various substrate at lower heat temperature & 1K user-friendly products	×	○	○	○
	Polyurethane	Water base	Takelac	W6355 / PC & nonionic	*Good balance and elongation & strength with a lot of room to formulate other components	×	×	○	△
				WS / Siloxane bonding	*Excellent bonding to various substrate at lower heat temperature & 1K user-friendly products	×	△	○	△
				WPB / Special Isocyanate	*Excellent Oxygen barrier & oil resistance property	×	○	○	△
		Solvent base	Takenate	500 / XDI Monomer	*Excellent reactivity with less yellowing (vs. conventional aliphatic isocyanate)	×	×	○	○
				600 / H6XDI Monomer	*Good reactivity with no yellowing (vs. conventional aliphatic isocyanate)	×	×	○	△
				D110N / XDI TMP adduct	*Excellent reactivity with less yellowing for industrial	×	○	○	△
				D110N(NB)/XDI TMP adduct	*Excellent reactivity with less yellowing for food	○	○	○	△
				D120N / H6XDI TMP adduct	*Good reactivity with no yellowing, easy to handle	×	×	○	△
				D131N / XDI Isocyanurate	*Higher heat resistance and chemical resistance (vs. D110N)	×	×	○	△
		Bio base	STABiO	D370 & D376	*Isocyanate with compatibility of higher performance and sustainability	×	×	×	△
	Acrylic Emulsion	Water base	BONRON	XPS	*Adhesion promoter to various substrate	△	○	○	△
Chemical Resin	Polyolefin Wax (Polyolefin Solid Oligomer)	Ziegler	HiWax	Acid Modified	*Compatibility with polar materials	×	○	○	○
				Styrene Modified	*Compatibility with Aromatic materials	×	○	○	○
		Metallocene	Excerec	Non modified	*Low bleed-out and tackiness	○	○	○	○
				Acid Modified	*Low bleed-out and tackiness *Compatibility with polar materials	×	○	○	○
	Polyolefin Liquid Oligomer		LUCANT	LX series	*High chemical/Water resistance from no double bonding *Eco-frienly, such as silicone/solvent free product	○	○	○	○
	Hydrocarbon resin		FTR	2000 series	*Tackifier for hot melt	×	○	○	○
				6000 series	*Excellent compatibility and solubility	×	○	○	△

(*1)○ : all grades are compliant, △ : some grades are compliant, □ : being compliant with limited coating weight, × : nothing is compliant

(*2)○ : already registered, △ : still pre-registered