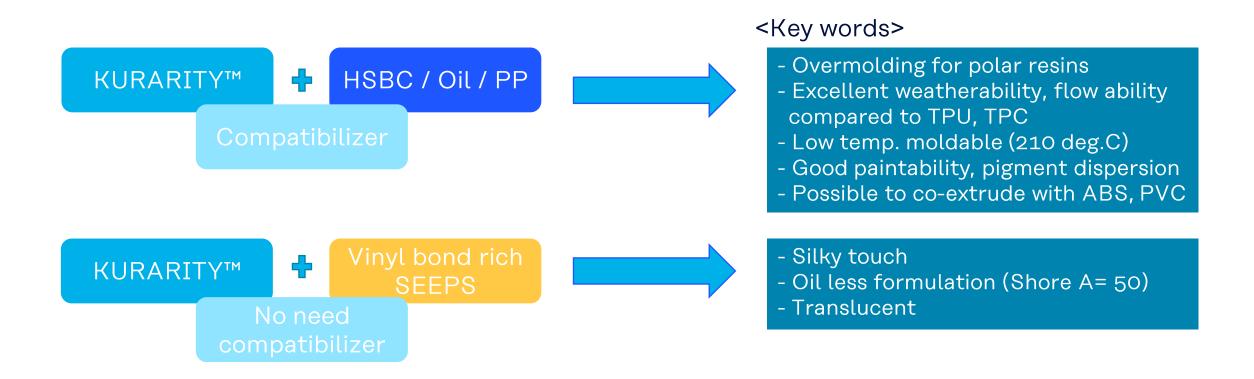
KURARITY™ for plastic / adhesive modification

KURARITY business promotion dept. Elastomer Division



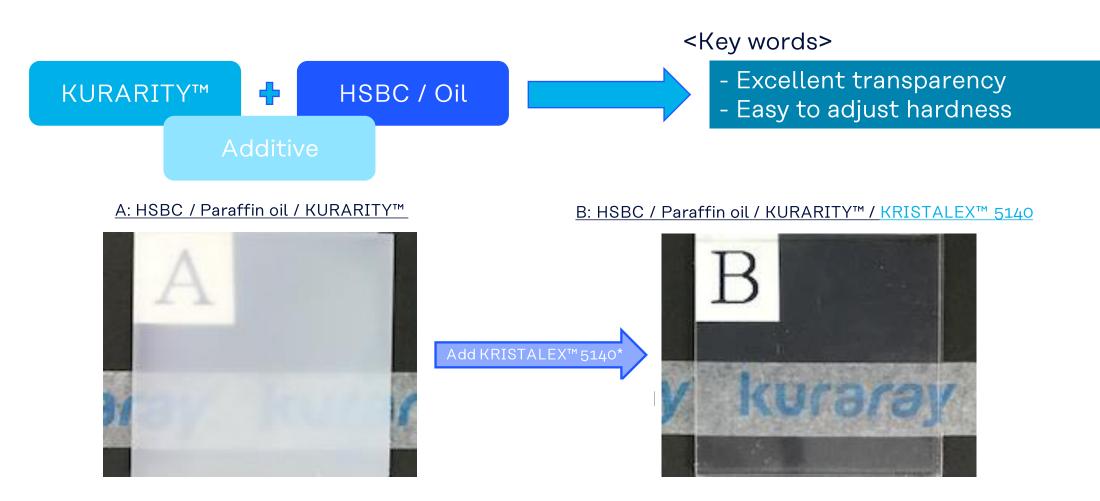
HSBC* / KURARITY™ compounds



-> Some customer asked for if HSBC/KURARITY™ can be transparent.

If it is possible, it will be very interesting technique.

HSBC / KURARITY™ transparency control technique

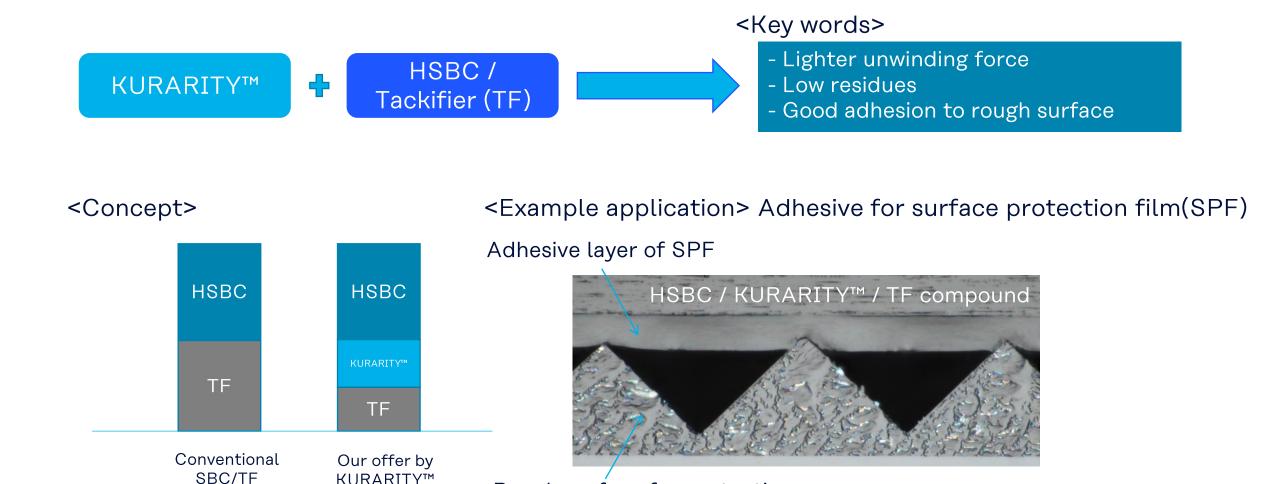


*KRISTALEX is a registered trademark of Eastman chemical resins inc..

HSBC / KURARITY™ for adhesive compound

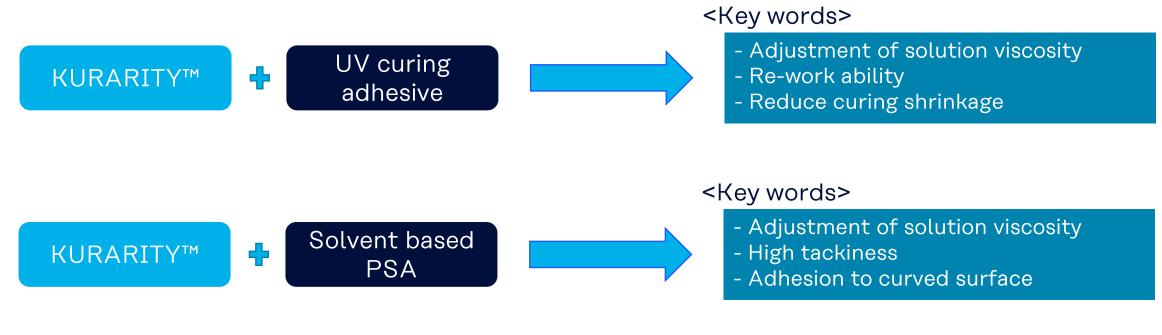
KURARITY™

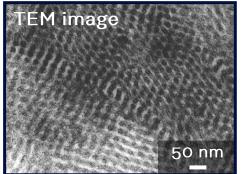
technology



Rough surface for protection

Adhesive and Pressure Sensitive Adhesive (PSA) modification





KURARITY™
Physical crosslinking is completed after drying.

Polyester / KURARITY™ compound for overmolding





PBT or PET-G



<Key words>

- Dry touch compound
- High flowability, good weatherability, paintability, oil resistance (vs. TPC*)

*Thermoplastic Copolyester

<Example application> Camera grips



PLA / KURARITY™ compounds



<Example application> Top clear layer of floor sheet



LA / KURARITY™ (Top clear layer) PVC (Printing layer) PVC (Base layer)

PVC / KURARITY™ compounds



<Key words>

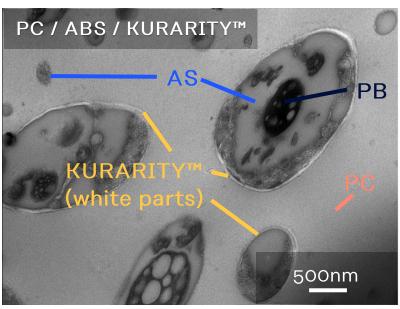
- Low Mw plasticizer free (KURARITY™ act as high Mw plasticizer)
- No plasticizer migration, volatile

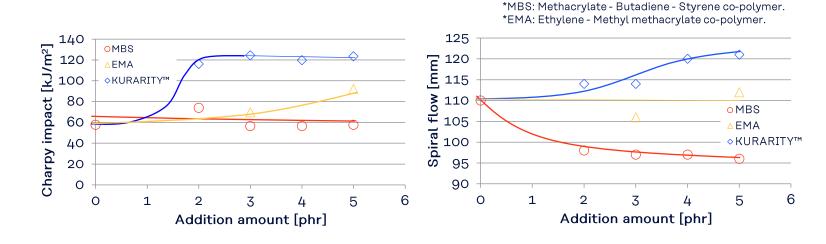
				PVC / DINP	PVC / Polyester	PVC / KURARITY™
PVC	Straight type PVC (k = 67, P = 1000)			100	100	100
Plasticizer	DINP			60		
	Polyester type (Viscosity at 25 deg.C = 3000 mPa · s)				60	
	KURARITY™ LA3320					80
Additives	Acrylic processing aid (METABLEN™ P550A)					10
Items	Methods	Conditions	Units			
Appearance	-	23 deg.C	-	Transparent	Transparent	White
Hardness type A	ISO 7619-1	After 15 sec	-	80	87	68
Tensile strength at break	ISO 37	200 mm / min	MPa	16	21	5.3
Tensile elongation at break			%	350	350	150
Volume resistivity	ISO 2951	-	Ωcm	1.7×10^{11}	3.2 x 10 ¹²	3.0 x 10 ¹¹
Embrittlement temp.	ASTM D746	-	deg.C	-42	-17	-22
Migration to PMMA plate	In-house method	70 deg.C, 72 hr	wt change %	Bonding	0.5-1.0	< 0.5
Fogging (glass plate haze)	ISO 6452 reference	100 deg.C, 8 hr	%	30.5	16.8	8.5



Polar resin modifications (PC / ABS etc.)







<Application>

- Automotive (Interior parts): PBT modification
- Automotive (Interior/exterior parts): PC / AS modification (Improved weatherability of PC / ABS)

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- → www.kuraray.com
- → www.elastomer.kuraray.com
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Precautions should be taken in handling and storage. Please refer to the appropriate Safety Data Sheet for further safety information. In using SEPTON™, HYBRAR™ and KURARITY™, please confirm related laws and regulations, and examine its safety and suitability for the application.

For medical, health care and food contact applications, please contact your Kuraray representative for specific recommendations. Even so, users must conduct their own assessment, revisions, registrations as well rely in their own technical and legal judgment to establish the safety and efficacy of their compound and/or end product with SEPTONTM, HYBRARTM and KURARITYTM for any application. SEPTONTM, HYBRARTM and KURARITYTM should not be used in any devices or materials intended for implantation in the human body. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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