



SK functional polymer

SPECIALTY POLYOLEFINS

 LOTADER®

 OREVAC®

 LOTRYL®

 EVATANE®

 EVASIN™

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LOTADER®

REACTIVE TERPOLYMERS

Reactive ethylene-acrylate maleic anhydride terpolymers

Reactive ethylene-acrylate-glycidyl methacrylate terpolymers

	TYPICAL PROPERTIES					
Grades	Reactive group (%)		Comonomer (%)	Melt index (g/10 min) (190°C–2.16 kg)	Melting point (°C)	Vicat softening temp. (°C)
AX8670T	GMA Epoxide	9	VA (16%)	12	87	43
AX8700		8	BA (25%)	9	72	< 40
AX8750		5	BA (25%)	12	72	< 40
AX8840		8	-	5	104	87
AX8900		8	MA (24%)	6	65	< 40
AX8930		3	MA (25%)	7	67	< 40
3210	MAH High content	3.1	BA (6%)	5	107	76
3410		3.1	BA (17%)	5	89	47
3430		3.1	MA (15%)	7	84	45
LX4110		3	EA (5%)	5	105	78
4210		3.6	BA (6.5%)	10	105	69
5500		2.8	EA (20%)	20	80	45
6200		2.8	EA (6.5%)	40	102	66
TX8030		2.8	EA (13%)	3	95	65
8200		2.8	EA (6.5%)	200	100	57
HX8290		2.8	EA (17.5%)	70	85	< 40
4403	MAH Low content	0.3	MA (20%)	8	80	45
4503		0.3	MA (20%)	8	80	45
4513T		0.3	MA (24%)	8	96	41
4700		1.3	EA (29%)	7	65	< 40
4700T		1.3	EA (29%)	7	79	< 40
Test method		FTIR	FTIR	ASTM D1238	DSC	ASTM D1525
		Int. method	Int. method	ISO 1133	ISO 11357-3	ISO 306



OREVAC® T

Reactive ethylene-vinyl acetate-maleic anhydride terpolymers

Grades	Reactive group (%)		Comonomer (%)	Melt index (g/10 min) (190°C-2.16 kg)	Melting point (°C)	Vicat softening temp. (°C)
9304	MAH Low content	0.2	VA (25%)	7.5	80	49
9305		0.6	VA (28%)	180	68	<40
9307Y		0.2	VA (14%)	10.5	93	66
9318		0.2	VA (18,5%)	7	86	54
Test method		FTIR	FTIR	ASTM D1238	DSC	ASTM D1525
		Int. method	Int. method	ISO 1133	ISO 11357-3	ISO 306

MAH (Maleic anhydride) GMA (Glycidyl methacrylate)
MA (Methyl Acrylate) BA (Butyl Acrylate) EA (Ethyl Acrylate) VA (Vinyl Acetate)

SK functional polymer

**LOTRYL®**

Ethylene-acrylate copolymers

ACRYLATE COPOLYMERS

		TYPICAL PROPERTIES					
Grades	Type	Comonomer (%)	Melt index (g/10 min) (190°C–2.16 kg)	Melting point (°C)	Vicat softening temp. (°C)	Ring and ball temp. (°C)	Flexural modulus (MPa)
18MA02	EMA	18	2	83	53	-	50
20MA08		20	8	76	46	-	20
24MA005		24	0.5	72	45	-	18
24MA02		24	2	68	49	-	18
28MA07		28	7	65	< 40		10
29MA03		29	3	61	< 40	175	10
28BA175	EBA	28	175	75	40	94	23
30BA02		30	2	73	41	> 190	< 10
35BA40		35	40	66	< 40	110	< 10
35BA320		35	320	65	< 40	85	< 10
24MA02T	EMA	24	2	95	40	-	17
24MA07T		24	7	97	49	-	36
29MA03T		29	3	92	< 40	-	12
28BA175T	EBA	28	175	102	< 40	-	< 10
28BA700T		28	700	94	< 40	-	< 10
35BA40T		35	40	89	< 40	134	< 10
35BA320T		35	320	90	< 40	-	< 10
Test method		FTIR	ASTM D1238	DSC	ASTM D1525	ASTM E28	ASTM D790
		Internal method	ISO 1133	ISO 11357	ISO 306	NF EN1238	ISO 178

MA (Methyl Acrylate) BA (Butyl Acrylate)

Lotryl® Specialties

Seal-Peel resins and Masterbatches

	TYPICAL PROPERTIES				Food compliance
	Comonomer (%)	Melt index at 190°C	Melting point (°C)	Vicat softening temp. (°C)	
BESTPEEL 2008	20	7	79	46	FDA/EU
BESTPEEL 2407	23	2	69	<40	FDA/EU
BESTPEEL 2805V	28	6	72	40	FDA/EU

Masterbatches	TYPES OF ADDITIVES/ACTION			CARRIER RESIN
	Anti-block	Slip agent	Soft touch	
MM1288	o	o	-	EMA
MM1297	o	o	-	EMA
MM1338	o	o	-	EMA
MM1339	o	o	o	PE

		TYPICAL PROPERTIES				
Grades	Base polymer	Reactivity*	Melt index (g/10min.) (190°C ; 2.16kg)	Melting point (°C)	Vicat softening temp. (°C)	Density
18211	EVA	+	3.5	75	51	0.950
18215	EVA	+++	5	70	< 40	0.940
18603	EMA	++	3.5	92	< 40	0.950
18610	EBA	++++	3	-	-	0.929
18300	LLDPE	++	2.5	120	85	0.916
18302N	LLDPE	++	1.5	123	84	0.912
18334	LLDPE	+	1.0	125	101	0.920
18341	LLDPE	+++	1.5	121	95	0.918
18342N	HDPE	+	3.5	125	110	0.930
18362	LLDPE	+	2.5	123	-	0.918
18388	LLDPE	++++	3	-	-	0.890
18507	HDPE	+++	--5.0	128	-	0.954
18910	LLDPE	+	1.5	117	80	0.950
OE825	LLDPE	+++	3.0	118	100	0.913
OE850	LDPE	+++	7.5	104	89	0.915
OE808	VLDPE	++++	0.6	113	61	0.890
IM300	VLDPE	+	1.0	110	<40	0.876
IM800	VLDPE	+++	0.8	46	<40	0.866
Test method		Internal Method	ASTM D1238	DSC	ASTM D1525	
			ISO 1133	ISO 11357	ISO 306	

		TYPICAL PROPERTIES				
Grades	Base polymer	Reactivity*	Melt index (g/10min.) (230°C ; 2.16 kg)	Melting point (°C)	Vicat softening temp. (°C)	Density
18722	Random PP	+	7.0	143	120	0.900
18729	Homo PP	+	4.5	162	137	0.900
18730	Homo PP	+	3	-	-	-
18732	Random PP	+	8.0	134	120	0.890
18750	Homo PP	++	35	160	121	0.920
18751	Homo PP	+	35	160	138	0.910
18780	Homo/copo PP	++	20	-	-	-
18790	Random PP	+++	45**	137	-	0.890
CA100 / CA100N	Copo PP	+++	10**	167	147	0.905
Test method		Internal Method	ASTM D1238	DSC	ASTM D1525	
			ISO 1133	ISO 11357	ISO 306	

Legend: * Reactivity MAH%
 + 0.1-0.3
 ++ 0.3-0.6
 +++ 0.6-1.0
 ++++ >1

** Melt index @ 190°C, 325 g



Ethylene-vinyl acetate copolymers

EVA/EVOH
COPOLYMERS

		TYPICAL PROPERTIES					
Grades	Bases	Comonomer content (%)	Melt index (g/10 min) (190°C–2.16 kg)	Melting point (°C)	Vicat softening temp. (°C)	Ring and ball temp. (°C)	
18-150	EVA	18	150	88	43	102	
18-500		18	500	86	43	94	
20-20		20	20	83	46	127	
24-03		24	03	80	46	183	
28-03		27	03	76	41	166	
28-05		28	05	72	40	160	
28-25		28	25	71	< 40	120	
28-40		28	40	70	< 40	106	
28-150		28	150	69	< 40	95	
28-420		28	420	66	< 40	84	
28-800		31	800	63	< 40	80	
33-25		33	25	63	< 40	119	
33-45		33	45	62	< 40	107	
33-45 PV		33	45	62	< 40	107	
33-400		33	400	63	< 40	84	
40-55		40	55	55	< 40	97	
42-60		>41	75	48	< 40	95	
Test method		FTIR	ASTM D1238	DSC	ASTM D1525	ASTM E28	
		Internal Method	ISO 1133	ISO 11357-3	ISO 306	NF EN1238	



Ethylene-vinyl alcohol copolymers
(a trademark of Chang Chun Petrochemicals, based in Taipei, Taiwan)

Grades	Ethylene (% mol)	MELT INDEX (g/10min)		MELTING POINT (°C)	CRYSTALIZATION POINT (°C)	GLASS TRANSITION POINT (°C)	O2 TRANSMISSION RATE (65% RH, 20°C) (cm ³ .20µm/m ² .24hrs.atm)
		190°C - 2.16 kg	210°C - 2.16 kg				
EV 2951F	29	-	2.5	188	163	62	0.2
EV 3201F	32	1.7	-	183	161	61	0.3
EV 3251F	32	1.7	4.1	183	159	60	0.3
EV 3251FT	32	1.9	4.3	183	155	57	0.5
EV 3851F/V	38	1.8	3.9	173	151	57	0.7
EV 4405F	44	5.5	12.0	165	146	55	1.8
EV 4451F/V	44	1.8	-	165	146	54	1.8
Test method		ASTM D1238 / ISO 1133		DSC ISO 11357	DSC ISO 11357	DMA ISO 11357	ASTM D3985 / ISO 14663-2

F: Lubricated V: Non lubricated T: thermoforming

SK functional polymer

LET'S INNOVATE TOGETHER

SK Functional Polymer (SKFP), previously an Arkema Functional Polyolefins business, has produced specialty polyolefins for more than 50 years. Thanks to their unique combination of functionalities (epoxide, maleic anhydride, acrylate, vinyl acetate) SKFP resins have ignited innovation from the most complex food packaging composites to the newest advances in plastic circular economy.

Since June 1, 2020, SKFP is a subsidiary of SKGC, a South Korean petrochemical producer with annual revenues of 10.6 billion USD in 2019.

PACKAGING



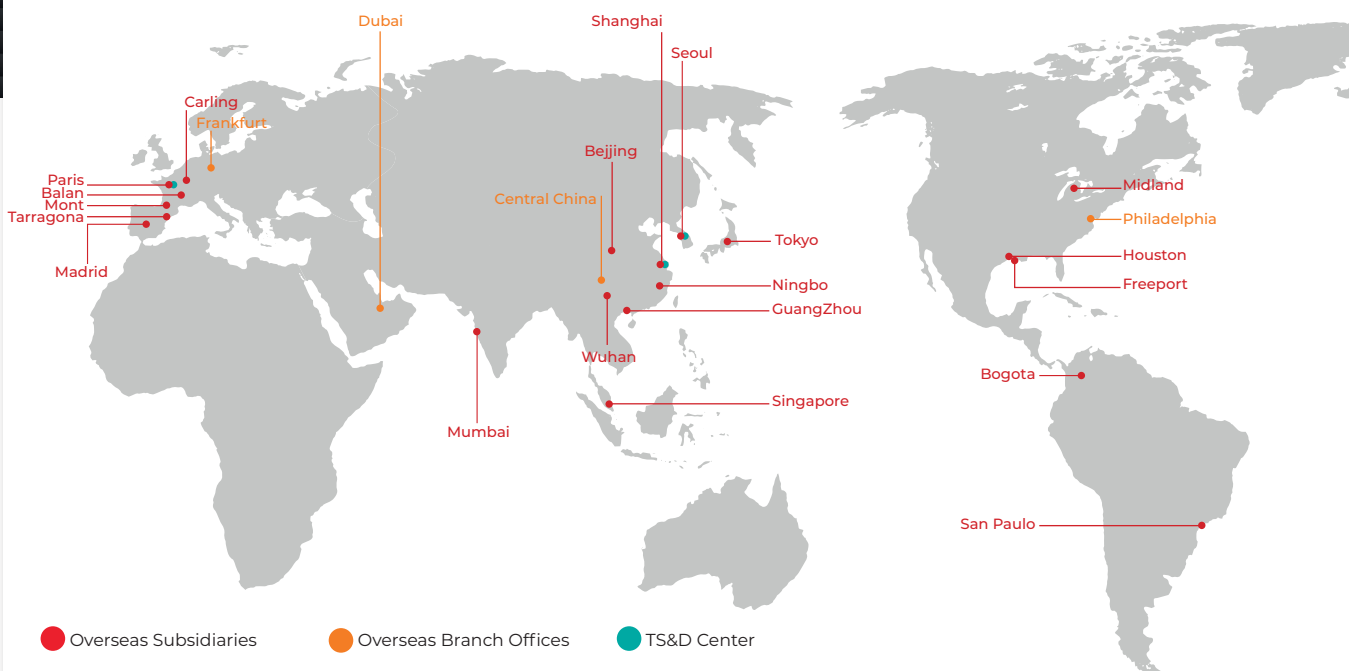
SUSTAINABILITY



AUTOMOTIVE



SKGC GLOBAL PRESENCE



Disclaimer: Please consult SK Functional Polymer disclaimer regarding the use of SK FP products on www.sk-fp.com.

Regulatory information: for information on regulatory compliance, consult your local representative. Read and understand the Material Safety Data Sheet (MSDS) before using these products.