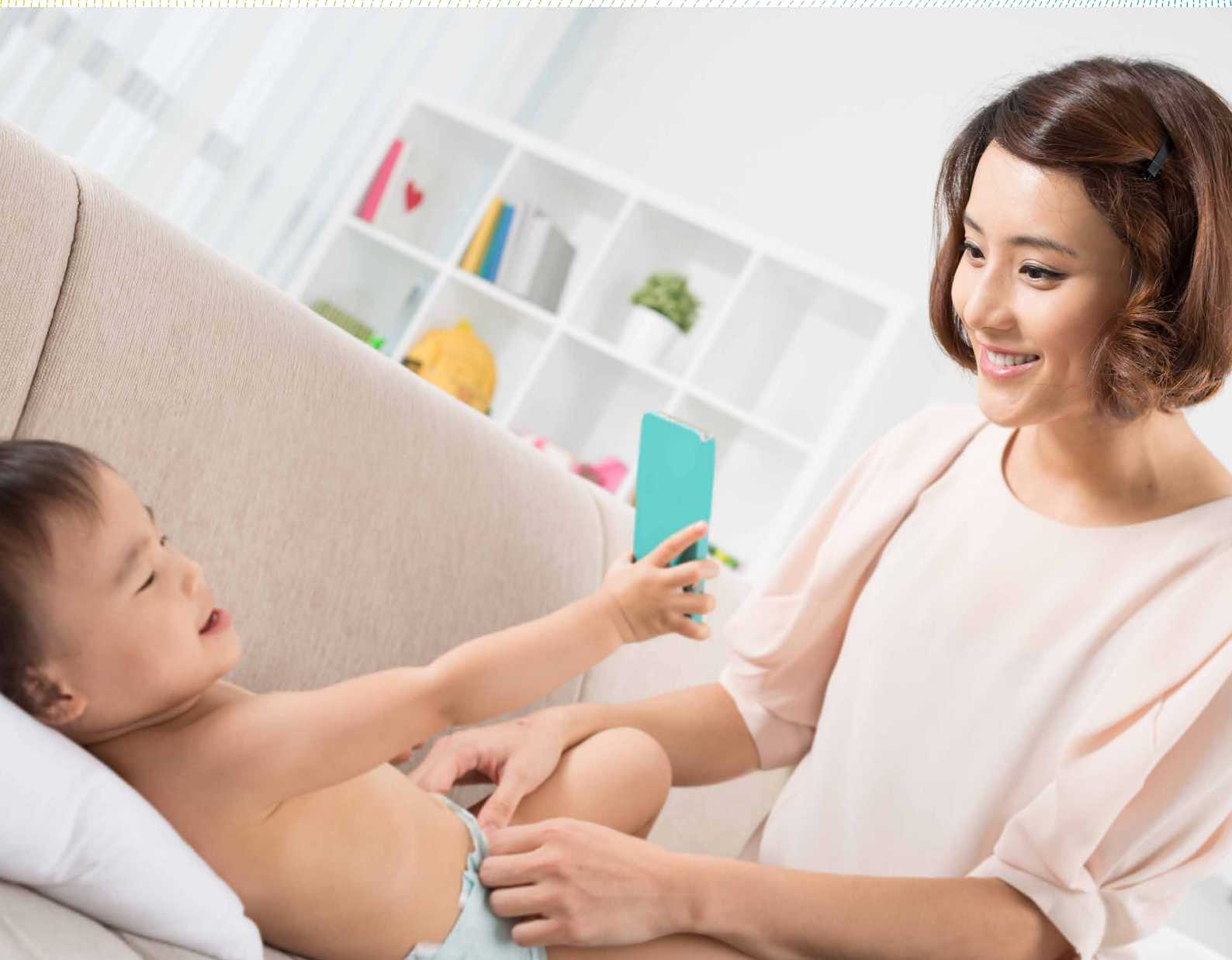
Escorez™ Vistamaxx™
Escorene™ ExxonMobil™ EnBA

ExxonMobil

Asia Pacific portfolio

Tackifiers and polymers for better bonding

Energy lives here™



Hot-melt technology – a binding force

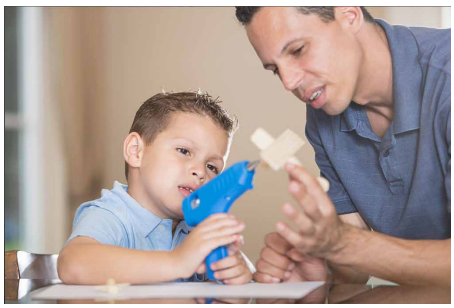
As a leading supplier of tackifiers and polymers to adhesive formulators, ExxonMobil Chemical provides you with:

- Reliable supply of consistent high-quality products from readily available feedstocks
- Worldwide manufacturing facilities
- Opportunities for low odor and minimal color adhesives
- Global technical support resources from fundamental polymer research to application development and testing
- Regional sales support and customer service teams

Escorez tackifiers - typical values

	Softening point	Initial color 50% in toluene	Tg	GPC molecular weight Mn	GPC molecular weight Mw
Unit	°C	YI	°C	g/mol	g/mol
Test Method	ETM 22-24	ETM 22-13	ETM 300-90	ETM 300-83	ETM 300-83
Escorez 1000 Series-aliphatic resins					
1102	98.7	27	46	1200	3100
1204LS (1)	93.8	32	47	1000	1800
1304 (1)	99.7	29	51	1000	1600
1310	92.7	39	43	1000	1500
1401 (1)	118.4	31	69	700	1700
ECR288S (1)	99.5	32	52	1200	2300
Escorez 2000 Series-aromatic modified aliphatic resins					
2203LC (1)	91.6	23	44	900	1800
ECR807 (1)	89.0	32	45	1000	1700
Escorez 5300 Series-water white hydrogenated cycloaliphatic resins					
5300	105.0	≤ 1	51	410	670
5320	124.0	≤ 1	69	400	700
5340	139.5	≤ 1	86	400	730
5380	86.2	≤ 1	36	350	580
Escorez 5400 Series-light color hydrogenated cycloaliphatic resins					
5400	103.4	≤ 2	49	400	670
5415	118.3	≤ 2	63	430	720
Escorez 5600 Series-light color hydrogenated aromatic modified cycloaliphatic resins					
5600	102.5	≤ 2	52	500	800
5615	117.8	≤ 2	68	570	880
5637	129.7	≤ 2	77	570	820
5690	90.5	≤ 2	39	450	760

(1) Initial color test method: ETM-E-13, GPC Molecular weight test method: ETM-E-83. ETM: ExxonMobil test method
Typical values are not specifications, but are provided to aid formulators in the selection of products for evaluations.



Polyolefin copolymers - typical values

	Comonomer content	Melt index	Tensile strength at break	Elongation at break	Peak melting temperature
Unit	Weight %	g/10 min	MPa	%	°C
Test Method	ETM	ASTM D 1238	ASTM D 638	ASTM D 638	ETM
Escorene™ Ultra ethylene vinyl acetate (EVA) copolymers					
AD 0428EM1	27.5	400	3	700	71
AD 0433EH2	33	400	1.7	710	59
UL 00218CC3	18	1.7	46	>100	87
UL 00328	27	3	19	>100	73
UL 00728	27.5	7.0	17	>100	73
UL 02133EN2	33	21	> 5	>750	61
UL 02528	27.5	25	>6.5	>700	71
UL 04028CC	27.5	41	6.5	720	71
UL 04533EH2	33.0	45	>4.0	>750	62
UL 05540EH2	39.0	60	>1.8	>750	48
UL 15019CC	19	150	4.9	650	83
UL 15028CC	27.5	150	3.6	830	69
UL 40028	28.0	400	2.5	570	69
UL 53019	19.0	530	3.2	230	80
AD 2528	27.6	3200(2)	2	240	74
UL 7510	18.7	500	2.9	330	78
UL 7511	18.7	500(1)	3	330	78
UL 7521	18.5	150(1)	3	610	80
UL 7710	26.7	420	1.6	500	62
UL 7711	26.7	420(1)	2	500	62
UL 7720	27.6	150(1)	2	640	63
UL 7741	26.7	43	4.0	>800	69
UL 7765	26.2	2.3	10	>800	74
UL 8705	27.6	9300(2)	2	360	71
UL 7520	18.5	140	4.2	>800	83
UL 7740	27.6	43	1.9	>800	66
UL 7760	26.7	5.7	8.3	>800	73
UL 7840E	31.4	43	3	>800	58
ExxonMobil™ ethylene n-butyl acrylate (EnBA) copolymers					
EN 33331	32.5	330(1)	1	270	62
EN 33901	32.5	8340(2)	1	135	60
Optema™ EMA (ethyl methyl acrylate) resins(3)					
TC 110	21.5	2	20/21 (MD/TD)(4)	370/650 (MD/TD)(4)	80
TC 114	18	3.2	20/20 (MD/TD)(4)	380/670 (MD/TD)(4)	85
TC 120	21.5	6	5.9	>800	77
TC 220	24	5	5.9	>800	72

Remark:
(1) Value reported is an estimate based on ExxonMobil Chemical's correlation from melt flow rate data measured at other standard conditions
(2) Bookfield viscosity at 190°C in mPa.s using ASTM D 3236 test method
(3) Technical data sheets are also available for Optema products for other fabrication processes such as cast film, molding, and extrusion coating
(4) The data are based on blown film sample using ASTM D 882 test method
Typical values are not specifications, but are provided to aid formulators in the selection of products for evaluations.
ETM: ExxonMobil Test Method

Vistamaxx™ performance polymers - typical values

Grade	Density ExxonMobil method, g/cm³	Viscosity at 190°C (374°F) ExxonMobil method cP (mPa•s)	Melt mass-flow rate (MFR) ExxonMobil method 230°C/2.16 kg	Glass transition, Tg ExxonMobil method °C	Melting point, Tm ExxonMobil method °C
8880	0.879	1200	-	-22	97
8780	0.864	3980	-	-32	96
8380	0.864	7570	-	-31	100
6502	0.865 (1)	-	48 (2)	-	-
6202	0.863 (1)	-	20	-	-
3980FL	0.878 (1)	-	8	-	-
3000	0.873 (1)	-	8	-	-

(1) Test method based on ASTM D1505
(2) Test method based on ASTM D1238

Tackifiers and polymers for adhesion applications

End-use	Escorez™ 1000 tackifier	Escorez™ 2000 tackifier	Escorez™ 5000 tackifier	Escorene™ Ultra EVA	Vistamaxx™ performance polymers
Hot-melt adhesives					
Nonwovens			▪		▪
Packaging	▪	▪	▪	▪	▪
Bookbinding	▪	▪	▪	▪	▪
Woodworking		▪	▪	▪	▪
Assembly		▪	▪	▪	▪
Carpet backing	▪	▪		▪	▪
Sealants	▪	▪	▪		▪
Converting					
Tapes	▪	▪	▪		
Labels	▪	▪	▪		▪
Pipe wrapping	▪	▪			
Wax blending	▪	▪	▪	▪	
Road marking	▪			▪	▪
Tire	▪				

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