

EVOPRENE™ STANDARD Thermoplastic Elastomer (TPE) Compounds

Evoprene™ Standard Compounds are easy to mould and extrude. Cycle times are slightly longer than for SEBS-based Evoprene™ G, HP or Super G grades and the compounds need to be brought to a lower temperature before they can be demoulded. Extruded products benefit from processing at high speeds to increase the shear and provide a better surface finish.



Transparent Evoprene Standard Compounds

A range of transparent grades with a high degree of optical clarity is available with Shore A hardness ranging from 43 to 60. All these grades have excellent resilience and they all have densities in the 0.9 region, making them cost effective against other thermoplastic elastomer types. As with other SBS-based compounds, they should not be used for long periods exposed to sunlight and even for short periods an increased level of UV stabilisation should be specified

EVOPRENE™ STANDARD Compounds

Most Evoprene™ grades are formulated for specific applications, then adapted for other requirements. There are a number of features which all grades exhibit, providing benefit to the processor and end-customer:

- Easy to process on standard thermoplastic processing equipment
- Fully recyclable at all stages
- No degradation during normal processing
- Pelletised compound is ready to use, usually with no predrying
- Generally easy to colour with universal or PE-based masterbatch or with liquid colors
- Suitable for molding with cold or hot runner systems
- All grades are free from phthalate or similar plasticisers
- All grades, except fire retardant grades identified separately, are halogen-free
- Extensive development and technical service support available

Need more information? Visit www.alphagary.com or send us an email at enquiries@alphagary.com or call:

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Additional Information about:

- Material Selection
- Processing
- Mould Shrinkage
- Chemical Resistance
- Packaging & Labeling

AlphaGary
Evoprene™
25 Years of
Know-How!

can be obtained by visiting www.alphagary.com, emailing us at enquiries@alphagary.com, or contacting one of our offices

EVOPRENE™ STANDARD Compounds

The Evoprene™ Standard series is based mostly on SBS (styrene-butadiene-styrene) block copolymer rather than the hydrogenated SEBS type. This is a lower cost polymer so these grades are generally available at reduced cost compared with the Evoprene™ G or GC grades. SBS is the block copolymer form of SBR rubber and the properties generally mirror those of its vulcanisable cousin. Compounds produced from SBS block copolymer are suitable for a wide range of applications including extruded door, window and furniture seals and rubbing strips, mats, bump stops, grommets, coat hanger pads, toy components etc. Compounds remain flexible to very low temperatures (-60°C, -75°F) and can be used at up to +55 - 60°C (130 - 140°F). A wide range of hardnesses is available from the mid 20s Shore A to about 60 Shore D. Many compounds are formulated for good ozone resistance but whilst grades pigmented black can be used for external application non black grades will quickly harden and discolour outside.



Evoprene™ Standard grades are widely used for soft coat hanger pads

Food Contact Applications

With the appropriate stabiliser package the Evoprene™ Standard series grades shown with the FG symbol in the table can be used in food contact applications requiring approved ingredients according to FDA or EU regulations. It is the responsibility of the end user to carry out appropriate tests such as global migration to ensure suitability

For more information please see the "Evoprene™ General Information" sheet

EVOPRENE™ STANDARD

Over the years, we have created hundreds of formulations – here are some of our most popular materials. Please feel to contact us for assistance in product selection. We enjoy being involved!

	Units Test Method	Hardness Shore A Deg ISO 868	Specific Gravity g/cm ² ISO 2782	M-S Flow** Kg/cm ² AG	Tensile Strength MPa ISO 37	Elongation @ Break % ISO 37	Modulus 100% MPa ISO 37	Tear Strength KN/m ISO 34-B	Comp Set 72h 22C % ISO 815	Ozone 100 pphm 20% str	Bonds With
Opaque	Evoprene 027	28	0.99	17	4.4	860	0.7	18	14	Crack	PS
Opaque	Evoprene 047	36	1.00	31	3.3	910	1.2	21	19	Pass	PS
Opaque	Evoprene 025	38	1.00	21	4.4	1010	0.8	20	25	Crack	PS
Opaque	Evoprene 003	40	0.99	25	5.5	665	1.5	28	14	Crack	PS
Opaque	Evoprene 689	43	0.99	16	4.5	840	0.8	17	44	Pass	PS
Opaque	Evoprene 084	45	0.99	50	3.5	830	1.6	25	24	Pass	PP
Opaque	Evoprene 089	51	1.04	37	4.2	680	1.6	24	30	Pass	PP
Opaque	Evoprene 022	53	0.99	25	6.1	655	1.9	32	17	Pass	PS
Opaque	Evoprene 036 ^{FG}	56	0.91	9	3.4	380	2.2	24	23	Pass	PP, PE
Opaque	Evoprene 094	61	1.10	34	5.1	605	2.1	30	28	Pass	PS
Opaque	Evoprene 068	61	1.48	35	3.5	600	1.5	23	25	Crack	PS
Opaque	Evoprene 075	60	1.10	20	4.8	610	1.7	27	18	Pass	PS
Opaque	Evoprene 076	60	1.12	18	4.8	610	1.7	27	18	Pass	PS
Opaque	Evoprene 049	67	0.99	45	8.6	535	3.2	46	32	Pass	PS
Opaque	Evoprene 091	69	1.10	35	5.2	535	2.3	31	30	Pass	PS
Opaque	Evoprene 007	71	1.16	22	5.1	670	2.3	30	28	Pass	PS
Opaque	Evoprene 042	75	1.06	38	7.2	390	4.6	40	28	Crack	PS
Opaque	Evoprene 081	78	1.09	42	5.7	450	2.9	35	35	Pass	PS
Opaque	Evoprene 057	94 / 48D	1.04	57	10.0	320	7.5	48	49	Pass	PS
Opaque	Evoprene 029	92 / 43D	1.15	11	11.1	470	7.7	61	65	Pass	PP
Opaque	Evoprene 032	91 / 42D	1.17	11	9.3	440	6.3	47	71	Pass	PP
Translucent	Evoprene 019 ^{FG}	42	0.93	21	4.0	710	1.1	21	31	Pass	PE
Transparent	Evoprene 3276	33	0.97	8	4.6	840	1.0	16	39	Crack	PS
Transparent	Evoprene 3275	40	0.95	9	5.2	830	1.4	30	35	Crack	PS
Transparent	Evoprene 3273	50	0.93	10	5.5	800	1.8	29	32	Crack	PS
Transparent	Evoprene 3268	55	0.94	11	7.0	890	2.1	38	42	Crack	PS
Transparent	Evoprene 3274	60	0.94	11	5.5	780	1.9	31	45	Crack	PS

**Please refer to Evoprene™ General Information Brochure or website for explanation of flow data.

^{FG} Grades marked with the ^{FG} symbol are suitable for use in food contact applications with appropriate limitations – see above

This information is intended for general guidance only and may contain information which could be inappropriate under particular conditions of application or use. Each customer or user must conduct its own studies to check for suitability for the intended end use.