

EVOPRENE™ GC Thermoplastic Elastomer (TPE) Compounds

EVOPRENE™ GC

The Evoprene™ GC series was created to provide cost effective solutions for processors and end users alike. If temperature resistance, weatherability and processing performance are paramount then it is best to choose an Evoprene™ Super G HP or Evoprene™ G grade. But if a reduction in temperature resistance can be tolerated and cost is important, the Evoprene™ GC range provides an excellent choice. Low Temperature performance is maintained at a high level with flexibility retained to -50 to -60° C depending on grade. In addition, all grades have excellent ozone resistance, and electrical resistance is in line with other Evoprene™ G compounds. Weatherability can be improved by the selection of appropriate stabiliser systems and special grades can be formulated to give superior UV resistance.



EVOPRENE™ GC

- A wide range of grades available all based on styrene ethylene-butylene styrene (SEBS) block copolymer
- Hardness range from 20 to 95 Shore A
- Several ranges available with different filler levels (characterised by their S.G.) to meet varying requirements
- All grades bond well to PP
- Readily coloured with PE-based masterbatch
- Easy processing on conventional thermoplastic moulding and extrusion equipment
- All grades shown in this document are suitable for food contact applications*



PROCESSING EVOPRENE™ GC COMPOUNDS:

Moulding and extrusion is very easy with Evoprene™ GC compounds. Many of these grades have low viscosity enabling very smooth surface finish extrusion and good definition mouldings to be obtained. Suggested processing conditions and troubleshooting information can be found in our processing guide or by contacting our technical department.

* **FOOD CONTACT** - With the appropriate stabiliser package, Evoprene™ G compounds can be used in food contact applications requiring approved ingredients according to EU or FDA regulations. It is the responsibility of the end-user to ensure appropriate tests such as global migration are carried out to ensure suitability.

Additional Information about:

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

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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.

EVOPRENE™ GC SERIES

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

Units Test Method		Hardness Shore A Degrees 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 22h @ 70°C % ISO 815	OK for Food Contact *
Translucent	Evoprene GC 5615	40	0.89	5	3.8	795	1.0	16	35	Yes
Translucent	Evoprene GC 5616	47	0.89	4	4.4	765	1.4	21	39	Yes
Translucent	Evoprene GC 5617	59	0.89	4	5.5	760	1.7	24	45	Yes
Translucent	Evoprene GC 5618	65	0.89	5	6.9	745	2.3	30	48	Yes
Translucent	Evoprene GC 5619	73	0.89	5	9.6	775	2.8	37	53	Yes
Translucent	Evoprene GC 5685	24	0.88	6	2.2	475	0.7	11	25	Yes
Translucent	Evoprene GC 5686	42	0.89	5	3.2	610	0.9	13	27	Yes
Translucent	Evoprene GC 5687	45	0.89	4	3.7	675	1.1	18	32	Yes
Translucent	Evoprene GC 5688	53	0.89	4	4.6	675	1.5	20	34	Yes
Translucent	Evoprene GC 5689	61	0.89	4	4.5	590	1.9	23	40	Yes
Translucent	Evoprene GC 5690	67	0.89	6	7.1	680	2.4	31	41	Yes
Translucent	Evoprene GC 642	76	0.92	16	8.0	720	3.8	44	47	Yes
Translucent	Evoprene GC 5691	78	0.89	5	7.9	585	3.7	38	78	Yes
Translucent	Evoprene GC 5692	83	0.90	6	9.7	560	4.8	47	52	Yes
Translucent	Evoprene GC 5693	86	0.90	8	10.7	590	5.8	49	51	Yes
Opaque	Evoprene GC 5645	28	0.97	7	2.4	580	0.7	12	30	Yes
Opaque	Evoprene GC 678	30	0.98	7	4.4	645	1.6	15	32	Yes
Opaque	Evoprene GC 5646	37	0.96	6	3.0	570	1.0	14	27	Yes
Opaque	Evoprene GC 5647	50	0.96	5	4.1	610	1.3	18	33	Yes
Opaque	Evoprene GC 5648	55	0.96	5	4.7	640	1.6	20	34	Yes
Opaque	Evoprene GC 5649	63	0.96	6	5.2	610	1.8	25	42	Yes
Opaque	Evoprene GC 5650	71	0.96	5	6.8	630	2.7	29	47	Yes
Opaque	Evoprene GC 5651	76	0.96	5	8.4	620	3.5	36	56	Yes
Opaque	Evoprene GC 5652	87	0.94	5	10.8	580	5.5	45	54	Yes
Opaque	Evoprene GC 5653	26	1.06	6	2.1	600	0.6	11	27	Yes
Opaque	Evoprene GC 5654	39	1.05	7	3.3	630	0.9	15	32	Yes
Opaque	Evoprene GC 5655	46	1.05	5	3.7	610	1.2	18	34	Yes
Opaque	Evoprene GC 5656	54	1.04	5	4.6	620	1.7	21	37	Yes
Opaque	Evoprene GC 5657	60	1.04	5	5.1	630	2.0	22	39	Yes
Opaque	Evoprene GC 5658	69	1.04	5	5.6	590	2.3	26	40	Yes
Opaque	Evoprene GC 5659	76	1.03	6	7.3	610	3.1	33	49	Yes
Opaque	Evoprene GC 5694	25	1.11	6	2.4	750	0.5	13	33	Yes
Opaque	Evoprene GC 5695	28	1.10	5	2.0	535	0.8	14	35	Yes
Opaque	Evoprene GC 5696	43	1.10	4	2.9	540	1.1	16	39	Yes
Opaque	Evoprene GC 5697	49	1.10	6	2.8	430	1.4	18	38	Yes
Opaque	Evoprene GC 5698	52	1.10	5	3.2	470	1.5	19	43	Yes
Opaque	Evoprene GC 5699	63	1.09	5	4.1	505	1.9	23	41	Yes
Opaque	Evoprene GC 5700	75	1.08	6	5.7	465	3.1	29	59	Yes
Opaque	Evoprene GC 5701	86	1.07	6	6.0	290	4.9	32	63	Yes
Opaque	Evoprene GC 5677	22	1.17	6	1.8	670	0.6	12	33	Yes
Opaque	Evoprene GC 5678	31	1.18	6	2.2	505	0.8	16	34	Yes
Opaque	Evoprene GC 5679	41	1.18	4	2.5	480	1.0	15	41	Yes
Opaque	Evoprene GC 5681	59	1.18	5	3.1	460	1.5	19	45	Yes
Opaque	Evoprene GC 5682	67	1.18	6	5.5	700	2.7	28	50	Yes
Opaque	Evoprene GC 5683	76	1.16	6	4.8	440	2.8	25	54	Yes
Opaque	Evoprene GC 641	76	1.10	21	6.0	590	3.9	42	50	Yes
Opaque	Evoprene GC 640	80	1.10	15	7.2	455	5.6	46	54	Yes
Opaque	Evoprene GC 5684	85	1.13	6	5.7	250	4.8	32	62	Yes
Opaque	Evoprene GC 645	86	1.03	8	8.5	540	5.5	46	62	Yes

*Provided the correct stabiliser package is utilised. **Please refer to Evoprene™ General Information Brochure or website for an explanation of flow data.

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