Precision-Engineered
Custom TPE
Compounds.

Engineering Excellence

FARR Polychem, based in JAFZA, Dubai, was established in 2023 as our second venture following the successful legacy of SBS Polychem Industries in India. With a firm commitment to innovation, quality, and technical excellence, we specialize in advanced SBS and SEBS thermoplastic elastomer (TPE) compounds engineered to consistently meet the demanding requirements of the automotive, construction, and footwear industries.

Technical Excellence, Customized Solutions.

Superior Processability & Consistency
Our SBS and SEBS compounds are formulated to deliver exceptional quality and consistency through proven processing techniques. Designed to run flawlessly on standard processing equipment such as injection molding and extrusion machines, our materials maintain rigorous performance and reliability throughout production.

Customizable Properties
Engineered for exacting specifications, our compounds allow for versatile hardness (measured in Shore A) and can be seamlessly color compounded to meet specific application needs. Detailed technical sheets—complete with performance charts and comparative metrics—are available to assist you in achieving the perfect balance between mechanical strength and aesthetic appeal.

Cost-Effective Solutions
By leveraging the inherent efficiencies of thermoplastic processing, our materials provide substantial cost savings compared to conventional elastomers while maintaining superior performance. This cost efficiency is ideal for high-volume manufacturing operations without compromising on quality or longevity.

What is TPE?

Thermoplastic Elastomers (TPEs) are a class of materials that combine the best of two worlds: the flexibility and softness of rubber with the processability and efficiency of plastics. Unlike traditional rubber, which must undergo a curing or vulcanization process, TPEs can be shaped, melted, and reprocessed using standard plastic manufacturing techniques like injection molding and extrusion.

TPEs are available in various formulations—like SBS and SEBS compounds—each offering tailored performance for specific applications. Whether you need durability, weather resistance, softness, or color flexibility, TPEs can be engineered to meet your exact needs.

Why Choose TPE Over Rubber?

1. Easier & Faster Processing
TPEs don't require curing, which saves time, energy, and costs. They can be processed just like plastic—fast cycle times, minimal waste, and no need for special rubber molds.

2. Recyclable & More Sustainable
Unlike rubber, TPEs are %100 recyclable. Scrap material from production can be reused, and end-of-life products can be remelted and reprocessed—making TPE a more eco-conscious choice.

3. Consistent Quality, Batch After Batch
TPE compounds offer excellent lot-to-lot consistency. You get predictable performance and reliable physical properties every time, which is harder to achieve with rubber compounds.

4. Customizable Performance
From soft-touch feel to UV resistance, from chemical durability to wide hardness ranges—TPE can be tuned for your product's exact application. It's more versatile than rubber in both design and formulation.

5. Lightweight & Design-Friendly
TPEs are typically lighter than rubber and easier to mold into complex geometries. This supports modern product design, especially in automotive and consumer goods where weight and aesthetics matter.

Whether you›re replacing rubber in an existing application or developing something new, TPEs open the door to better performance, greater efficiency, and smarter sustainability

Let us help you make the switch.

Product Grades*

	Hardness	Tensile Strength	Elongation at Break	Specific Gravity	MFI at 230*C - 2.16 Kg	MFI at 190*C - 5 Kg	Comments
FARRPRENE 20A	20 Shore A	2.5	>%800	0.88	2	36	Natural Color
FARRPRENE IU45A	45 Shore A	4	>%800	0.88	2.5	4	Injection Grade- Unfilled - Natural
FARRPRENE IF45A	45 Shore A	5	>%800	1.03	2.5	4.5	Injection Grade - Filled - White
FARRPRENE IU65A	65 Shore A	4.5	>%800	0.88	17	28	Injection Grade - Unfilled - Natural
FARRPRENE IU65A2	65 Shore A	5	>%800	0.89	12	31	Injection Grade - Unfilled - Natural
FARRPRENE IF65A	65 Shore A	6	>%800	1.03	16	42	Injection Grade - Filled - White
FARRPRENE IF65A2	65 Shore A	5	>%800	1.06	10	39	Injection Grade - Filled - White
FARRPRENE IF85A	85 Shore A	12	>%800	1.17	21	53	Injection Grade - Filled - White
FARRPRENE EF85A	85 Shore A	12	>%800	1.08	4.5	14	Extrusion Grade - Filled - White

**This documentation is based on our latest understanding as of its publication date and may be revised if new information emerges. The values provided are average rounded figures taken from a limited number of test samples; they are not intended to serve as formal product specifications. It is the sole responsibility of the customer and end user to conduct testing that determines the suitability of this material for a specific process or end-use, any interactions with other materials, and relevant safety considerations.*

As the compound manufacturer, we generally remain unaware of all end-use applications, how they interact with other components, or any related safety issues unless this is discussed with us beforehand. Therefore, we do not authorize the use of this compound in safety-critical applications without our explicit prior written approval.

With over 30 years of industry know-how, we're not just supplying materials – we're here to be your partner in innovation. From automotive components to construction materials, we're ready to tackle your toughest challenges.

Let's Innovate Together

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