

## SiSiB® SiE6040 Silicone Thermoplastic Elastomer (Si-TPV)

### INTRODUCTION

SiSiB® SiE6040 is a silicone thermoplastic elastomer produced through dynamic vulcanization technology. In this material, fully vulcanized silicone rubber is uniformly dispersed as fine particles within a thermoplastic elastomer matrix, forming a sea-island structure.

By combining the characteristics of silicone rubber and thermoplastic elastomers, SiSiB® SiE6040 provides a silky-smooth touch, excellent stain resistance, and reduced surface tackiness. It is suitable for standard extrusion and injection molding processes.

### BENEFITS

- Silky-smooth, skin-friendly touch
- Excellent stain resistance and dust repellence
- Easy demolding with simple gate and flash removal
- Good overmolding capability
- Yellowing resistance and high compression resilience
- Compatible with laser etching, screen printing, pad printing, painting, and other secondary processes

### PHYSICAL PROPERTIES

Appearance:	White to off-white pellets	
Hardness, Shore A	40	ISO 868
Specific Gravity	1.02	ISO 1183
Melt Index:	13.14	ISO 1133
(g/10min, 10kg, 190°C)		
Elastic Modulus (MPa)	0.97	ISO 37
Tensile Strength (MPa)	3.23	ISO 37
Elongation at Break (%)	554	ISO 37
100% Modulus (MPa):	0.66	ISO 37
Tear Strength (kN/m)	16.47	ISO34
Compression Set 22h/23°C, %	22	ISO 815

*These values are typical and not intended for specification purposes.*

### APPLICATIONS

SiSiB® SiE6040 is suitable for sealing applications, cables and wire coatings, synthetic leather, films, and other extruded or injection-molded elastomer components.

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### USAGE GUIDELINES

SiSiB® SiE6040 is recommended for extrusion processing.  
Suggested extrusion temperature settings:

Drying Time	1-2 h
Drying Temperature	70-80°C
Zone 1	170-180°C
Zone 2	180-190°C
Zone 3	190-200°C
Zone 4	190-200°C
Nozzle or Die	180-190°C

### PACKING

SiSiB® SiE6040 is supplied in 25 kg craft paper bag with PE inner bag.

### HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

### STORAGE

In the original unopened packaging, SiSiB® SiE6040 has a shelf life of 24 months in a cool and well-ventilated place.

### NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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