

### **STYRENIC SPECIALTIES**

### STYROFLEX® POWDER GRADE FOR POLYMER MODIFICATION







Driving Success. Together.

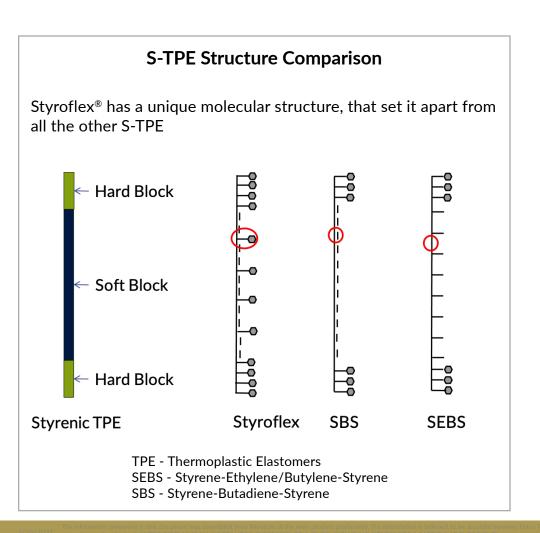


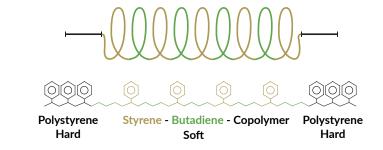
# STYROFLEX® STYRENE-BASED THERMOPLASTIC ELASTOMERS (S-TPE)

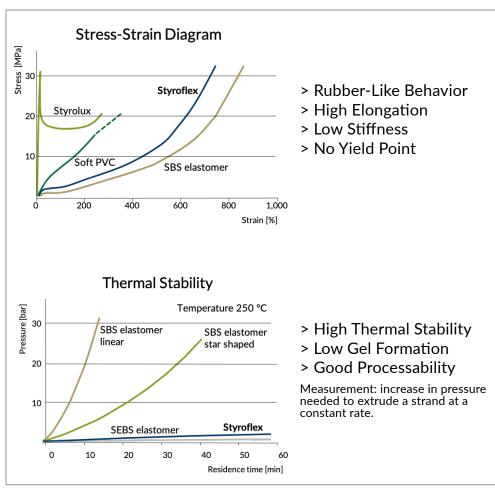
# INEOS STYROLUTION

#### What's Styroflex®?

- > Thermoplastic Elastomer based on styrene and butadiene with a hard-soft-hard block sequence (TPE-S).
- > Continuous soft rubber phase formed by inner block consisting of a randomized poly(styrene-co-butadiene).









## STYROFLEX® POWDER GRADE FOR POLYMER MODIFICATION

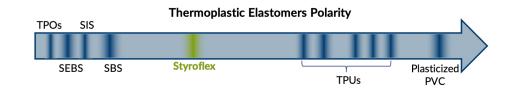


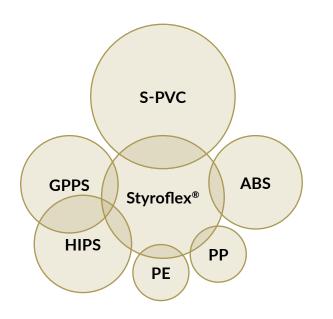
### A Modern Construction Kit – Using synergies by interacting with other polymers

### **Exemplary Value Proposition in S-PVC**Modification of Flexible S-PVC

- > Density reduction of S-PVC
- > Resilience (recovery after deformations)
- > Flexibility, enhanced by primary plasticizers
- > Low VOC "Volatile organic compounds", migration (compared to liquid plasticizers)
- > High toughness and impact resistance
- > Comparable processing temperatures
- > Processing aid good compatibility with S-PVC
- > Compatible with fillers, plasticizers, stabilizers etc.
- > Color neutral/transparent
- > Intermediate polarity improvement:
  - > Coextrusion, lamination, gluing and welding
- > Detergent resistant (compared to liquid plasticizers)
- > Oxygen and vapor permeability (as in S-PVC)

# INTERMEDIATE POLARITY MAKES STYROFLEX® COMPATIBLE WITH MANY DIFFERENT POLYMERS







# STYROFLEX® PM VA 800 PRODUCT ATTRIBUTES

#### | POLYMER COMPATIBILITY

ABS	Excellent or Very Good	
PP	Excellent or Very Good	
PE	Excellent or Very Good	
PS	Excellent or Very Good	
S-PVC	Excellent or Very Good	
SBC	Excellent or Very Good	
TPE	Excellent or Very Good	
TPU	Excellent or Very Good	

#### | POLYMER COMPATIBILITY

PSD	800 Micron
Optics	Transparent
Density kg/m³	1.00
Flow Processing	Excellent
Impact Resilience	Excellent

### **REGULATORY**

Food Contact with EU	Available
Food Contact with FDA	Available
Specification CoA	Available
TDS/SDS	Available
REACH (Registration, Evaluation, Authorization and Restriction of Chemicals)	Available
SVHC (Substance of Very High Concern)	Available
Absence Declaration (EU) 2019/1021	Available



### STYROFLEX® PM VA 800 FEATURES, APPLICATIONS & MARKETS



Styroflex® PM VA 800 is more polar than comparable SBS or SEBS grades and offers a combination of high resilience and toughness with good transparency and process stability.

#### **KEY FEATURES**

- > Excellent Thermostability
- > Compatibility to Polyolefins
- > Very High Elongation at Break
- > High Resilience
- > High Transparency
- > High Flow
- > Particle Size < 800 μm (powder)

### **APPLICATIONS**

- > Impact Modification/ESCR Improvement
- > Compounding, Compatibilization and Recycling

### **MARKETS**

- > Wire & Cable
- > Liners
- > Flooring Mats
- > Garden Hoses
- > Rainwear And Boots
- > Medical Tubing

- > Automotive Interior Trim
- > Plumbing
- > Electrical Cable Insulation
- > Inflatable Products
- > Imitation Leather
- > Signage

