

# Europrene® SOL T 177

Styrene Butadiene Styrene Block Copolymer

Versalis S.p.A.

## Message:

Europrene® SOL T 177 is a radial block copolymer obtained by anionic polymerisation. The polymer is based on styrene and butadiene, where bound styrene is 50 % wt. The polymer is extended with paraffinic oil (40 phr). A non-staining, TNPP free antioxidant system is added during the production process.

### Key Features

Europrene® SOL T 177 is a block copolymer with radial molecular structure, providing excellent mechanical properties, high strength and elasticity in a wide range of formulated products. The oil addition allows good flow characteristics.

### Main Applications

Used as a high strength base in formulated compounds for footwear, the grade is specifically designed for high hardness compounds.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Good Flow		
	High Elasticity		
	High Strength		
Uses	Compounding		
	Footwear		
Forms	Pellets		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	15	g/10 min	ASTM D1238
Bound Styrene	50.0	%	Internal Method
Oil Type (Paraffinic Oil)	40.0	phr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	86		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	170	mm <sup>3</sup>	DIN 53516
Shelf Life	18	month	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	3.00	MPa	ASTM D412
Tensile Strength	15.0	MPa	ASTM D412
Tensile Elongation (Break)	950	%	ASTM D412

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