

Europrene® SOL T 172

Styrene Butadiene Styrene Block Copolymer

Versalis S.p.A.

Message:

Europrene® SOL T 172 is a radial block copolymer obtained by anionic polymerisation. The polymer is based on styrene and butadiene, where bound styrene is 31 % wt. The polymer is extended with paraffinic oil (45 phr). A non-staining, TNPP free antioxidant system is added during the production process.

Key Features

Europrene® SOL T 172 is a block copolymer with radial molecular structure, where the oil addition allows extremely good flow characteristics and an easy processability. The grade provides excellent mechanical properties and outstanding abrasion resistance, in a wide range of formulated products.

Main Applications

Used as a high strength base in formulated compounds for footwear and technical applications, the grade is also used in the modification of polymers and in plastic recycling.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Good Abrasion Resistance		
	Good Flow		
	Good Processability		
Uses	Compounding		
	Footwear		
	Plastics Modification		
Forms	Pellets		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Bound Styrene	31.0	%	Internal Method
Oil Type (Paraffinic Oil)	45.0	phr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	48		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Abrasion Resistance	90.0	mm ³	DIN 53516
Shelf Life	18	month	
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	1.40	MPa	ASTM D412
Tensile Strength	9.00	MPa	ASTM D412
Tensile Elongation (Break)	900	%	ASTM D412

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