

Europrene® SOL T 6414

Styrene Butadiene Styrene Block Copolymer

Versalis S.p.A.

Message:

Europrene® SOL T 6414 is a radial block copolymer obtained by anionic polymerisation. The polymer is based on styrene and butadiene, where bound styrene is 40 % wt and diblock content is 22%. A non-staining antioxidant system is added during the production process.

Key Features

Europrene® SOL T 6414 is a radial block copolymer, characterised by excellent dispersability, processability and thermo-oxidative resistance, combined with high strength, elongation and hardness.

Main Applications

Europrene® SOL T 6414 is designed for hot melt adhesive applications: the grade shows high compatibility with tackifiers and imparts low melt viscosities and an excellent balance of adhesive and cohesive properties to the hot melt products. The grade is also used in footwear compounds, particularly where smooth and glossy surface finishing is required. Characterized by the excellent processability, SOL T 6414 is widely used in the modification of polymers and in plastic recycling.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Block Copolymer		
	Dispersible		
	Good Processability		
	High Elongation		
	High Hardness		
	High Strength		
	Oxidation Resistant		
Uses	Adhesives		
	Compounding		
	Footwear		
	Plastics Modification		
Forms	Pellets		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	11	g/10 min	ASTM D1238
Bound Styrene	40.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (300% Strain)	3.90	MPa	ASTM D412
Tensile Strength	26.0	MPa	ASTM D412
Tensile Elongation (Break)	850	%	ASTM D412

Fill Analysis	Nominal Value	Unit	Test Method
Brookfield Viscosity - Toluene sol., 25% wt	400	mPa·s	ASTM D1084
Diblock Content	22.0	wt%	
Shelf Life	18	month	

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