

SOFPRENE® NEUTRO 540200A85

Technical DataSheet | Supplied by SO.F.TER. (Celanese)

SOFPRENE® NEUTRO 540200A85 is a styrene butadiene styrene (SBS) compound. Offers excellent elastic properties, recyclability and maintains its flexibility even at very low temperatures (-50°C). The unsaturated nature of the SBS rubber makes it vulnerable to UV rays, heat and ozone. It is possible to improve its resistance by using appropriate additives and can be easily processed by means of the traditional technologies used for thermoplastic materials. Exhibits good abrasion resistance and excellent resistance to several chemical agents, i.e. bases, acids, alcohols, detergents, water solutions. Shows high thermal-, electric insulation values and excellent colorability. It is suitable for processing by injection molding. Potential applications include furniture like shock-absorbers for bed slats, wheels, anti-shock profiles, household goods like non-slip mats, handles for tools, overmolded rubber lips for dustpan and squeegees and plungers, toys like wheels, handles, seats and agriculture like gaskets for drip devices. Is a REACH compliant grade with Regulation (EC) No 1907/2006.

Product Type	SBC or TPE-S (Styrenic Block Copolymer) > SBS
Appearance	Natural
Product Status	COMMERCIAL
Applications/ Recommended for	Households products/ Consumer Goods > Toys Furnitures Agriculture Injection molding - thermoplastics
Labels/Agency Rating	REACH Compliant
Key Features	Flexibility, Low Temperature Base Resistant Abrasion resistance, Good Colorability, Good Insulating, Electrically Alcohol Resistant Acid Resistant Elasticity, High Recyclable

SOFPRENE® NEUTRO 540200A85 Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.04 g/cm ³		ASTM D792

Mechanical	Value & Unit	Test Condition	Test Method
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Tensile Strength	6.0 MPa		ASTM D412-C
Tear Strength	35 kN/m		ASTM D624-C
Hardness, Shore A	85	15s	ASTM D2240
Elongation at Break	540 %		ASTM D412-C
100% Modulus	3.6 %		ASTM D412-C

Elastomers	Value & Unit	Test Condition	Test Method
Tensile Set	16 %		ASTM D412

Thermal	Value & Unit	Test Condition	Test Method
Melting Point	90 - 100 °C		
Decomposition Temperature	> 230 °C		

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SOFPRENE® NEUTRO 540200A85 Processing Guidelines

Injection Molding	Value & Unit	Test Condition	Test Method
Mold Temperature	20 - 40 °C		
Nozzle Temperature	185 °C		
Processing Temperature- Zone 1	160 °C		

**Processing Temperature-
Zone 2** 170 °C

**Processing Temperature-
Zone 3** 180 °C

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