

Irgasurf® SR 100 B

Technical DataSheet | Supplied by BASF

Irgasurf® SR 100 B by BASF is a scratch resistant additive for PP-TPO. It can impart scratch and mar performance up to 15 newtons in the 5-finger and the cross-cut Erichsen tests used by many automotive producers. It also performs in combination with various light stabilizers and does not show detrimental surface effects such as stickiness or exudation during use. Boosts the mechanical properties and allows design cost-effective modules based on TPOs against more expensive technologies. It can work also in TPEs, PE, polyamides, styrenics and blends as well as other polymers. Main applications are interior and exterior automotive parts like instrument panels, consoles, door panels or bumpers, side trims, rocker panels. Irgasurf® SR 100 B may be used at loadings from 0.1 % to 5 % and for most applications in PP/TPO a level of 2 to 3 % will give excellent performance.

Product Type	Anti-scratch Agents
Physical Form	Pellets
Appearance	Translucent white
Product Status	COMMERCIAL
Applications/ Recommended for	TPE and TPV > TPO (or TPE-O) PP Polyurethane Automotive/ Transportation > Internal > Door module/panels Automotive/ Transportation > Internal > Instrument panels Mechanical/ physical performance Visual aspect & aesthetics > Antiscratch

Irgasurf® SR 100 B Properties

Property	Value & Unit	Test Condition	Test Method
Melting Point	40 - 100 °C		
Specific Gravity	0.927 - 0.940		
Bulk Density	0.57 g/ml		
Volatility	200 °C	Pure Substance. TGA. Heating Rate in Air @ 20°C/ min. 1% Wt Loss	

Volatility	250 °C	Pure Substance. TGA. Heating Rate in Air @ 20°C/ min. 5.1% Wt Loss
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Volatility	300 °C	Pure Substance. TGA. Heating Rate in Air @ 20°C/ min. 12.8% Wt Loss
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Solubility	< 0.013 %w/w	At 20°C in n-Hexane
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Solubility	< 0.013 %w/w	At 20°C in Dichloromethane
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Solubility	< 0.013 %w/w	At 20°C in Ethanol
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Solubility	< 0.013 %w/w	At 20°C in Water
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