

# PPO™ 646 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

## Message:

PPO\* 646 resin is a high molecular weight polymer based on Polyphenylene Ether (PPE). PPO\* is intended for use as an additive or a building block in a variety of thermoplastics and thermoplastic elastomers like Styrenic Block Copolymers. PPO\* resin can be used to improve properties like Heat Distortion and Creep Resistance. It is hydrolytically stable and non-hydroscopic (typically less than 0.2% water uptake). The polymer is soluble in common organic solvents like toluene, chloroform, and THF. Chemical name: Poly (2,6-dimethyl-, 1,4-phenylene ether) (PPE) Formula: (C8H8O)n Regulatory Status: Complies with the FDA regulation 21CFR 177.2460. Also complies with EU Directive 2002/72/EC.

General Information			
Features	High molecular weight		
	Hydrolysis stability		
Uses	Additive		
Agency Ratings	FDA 21 CFR 177.2460		
	European 2002/72/EC		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.465	g/cm³	ISO 1183
D	3.20		Internal method
Mean Particle Size	200.0	µm	Internal method
Mn	21700		Internal method
Mw	68600		Internal method
Phenolic End-group Content	820	ppm	Internal method
Tg (half width)	217	°C	Internal method
Intrinsic Viscosity	0.46	dl/g	Internal method
Toluene Content		ppm	Internal method
NOTE			

1. Bulk Density

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## Recommended distributors for this material

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