

PPO™ 640 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

PPO* 640 resin is a medium-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	Hydrolytically Stable		
	Medium Molecular Weight		
Uses	Additive		
Agency Ratings	EU 2002/72/EC		
	FDA 21 CFR 177.2460		
Forms	Powder		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.476	g/cm³	ISO 1183
D	2.80		Internal Method
Intrinsic Viscosity	0.40	dl/g	Internal Method
Mean Particle Size	200.0	µm	Internal Method
Mn	19900		Internal Method
Mw	56200		Internal Method
Phenolic End-group Content	890	ppm	Internal Method
Tg (half width)	216	°C	Internal Method
Toluene Content	< 1500	ppm	Internal Method
NOTE			
1.	Bulk Density		

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