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PPO™ Resin 640

Americas: COMMERCIAL

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.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
Tg (half width)	216	°C	SABIC Method
PHYSICAL			
Mean Resin Particle Size	200	micrometer	SABIC Method
Physical Form	POWDER	-	SABIC Method
Bulk Density	476	kg/m³	ISO 1183
Intrinsic Viscosity	0.4	dl/g	SABIC Method
Phenolic End-group Content	890	ppm	SABIC Method
Mw	56200	-	SABIC Method
Mn	19900	-	SABIC Method
D	2.8	-	SABIC Method
Toluene Content	<1500	ppm	SABIC Method