



PPO™ Resin 843

Americas: COMMERCIAL

PPO* 843 resin is a medium-high molecular weight copolymer based on Polyphenylene Ether (PPE) and Siloxane. 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: PPE-Siloxane copolymer Formula: $(C_8H_8O)_n(SiC_2H_6O)_m$ Regulatory Status: Complies with EC Reg. No. 10/2011 as amended through EC Reg. No. 2015/174.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
Tg (half width)	216	°C	SABIC Method
PHYSICAL			
Mean Resin Particle Size	400	micrometer	SABIC Method
Physical Form	POWDER	-	SABIC Method
Bulk Density	476	kg/m ³	ISO 1183
Intrinsic Viscosity	0.4	dl/g	SABIC Method
Phenolic End-group Content	1000	ppm	SABIC Method
Mw	36000	-	SABIC Method
Mn	14800	-	SABIC Method
D	2.6	-	SABIC Method
Toluene Content	<1500	ppm	SABIC Method