

# NORYL™ PPO™ POWDER 640

REGION ASIA

## DESCRIPTION

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: (C<sub>8</sub>H<sub>8</sub>O)<sub>n</sub> Regulatory Status: Complies with the FDA regulation 21CFR 177.2460. Also complies with EU Directive 2002/72/EC.

## TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>THERMAL</b>			
Tg (half width)	216	°C	SABIC method
<b>PHYSICAL</b>			
Mean Resin Particle Size	200	micrometer	SABIC method
Physical Form	POWDER	-	SABIC method
Bulk Density	476	kg/m <sup>3</sup>	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

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