

# NORYL<sup>™</sup> PPE POWDERS + CONCENTRATES 646

**REGION ASIA** 

### **DESCRIPTION**

NORYL PPE 646 resin is a high molecular weight polymer based on Polyphenylene Ether (PPE). This material is intended for use as an additive or a building block in a variety of thermoplastics and thermoplastic elastomers such as Styrenic Block Copolymers. PPE powder can be used to improve properties (i.e. 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

<b>Features</b> G	lame Retardant, Hydrolytic Stability, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Creep resistant, Dimensional stability, High stiffness/Strength, No PFAS intentionally added
Fillers U	Inreinforced
Polymer Types Po	olyphenylene ether (PPE)
Processing Techniques	njection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Mobile Phone - Computer - Tablets, Circuit Boards/Additives
Industrial	Industrial General
Packaging	Industrial Packaging

## **TYPICAL PROPERTY VALUES**

Revision 20241009

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL <sup>(1)</sup>			
Tg (half width)	217	°C	SABIC method
PHYSICAL <sup>(1)</sup>			
Mean Resin Particle Size	200	micrometer	SABIC method
Physical Form	POWDER	-	SABIC method
Bulk Density	465	kg/m <sup>3</sup>	ISO 1183
		- 1	
Intrinsic Viscosity	0.46	dl/g	SABIC method
	0.46 820	dl/g ppm	
Intrinsic Viscosity		, -	SABIC method
Intrinsic Viscosity Phenolic End-group Content	820	ppm	SABIC method SABIC method
Intrinsic Viscosity Phenolic End-group Content Mw	820 68600	ppm -	SABIC method SABIC method SABIC method

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.



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