

NORYL™ PPO™ POWDER 646

REGION ASIA

DESCRIPTION

PPO* 646 resin is a 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 PROPERTY VALUES

Revision 20181012

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|----------------------------|----------------|-------------------|--------------|
| THERMAL | | | |
| Tg (half width) | 217 | °C | SABIC method |
| PHYSICAL | | | |
| Mean Resin Particle Size | 200 | micrometer | SABIC method |
| Physical Form | POWDER | - | SABIC method |
| Bulk Density | 465 | kg/m ³ | ISO 1183 |
| Intrinsic Viscosity | 0.46 | dl/g | SABIC method |
| Phenolic End-group Content | 820 | ppm | SABIC method |
| Mw | 68600 | - | SABIC method |
| Mn | 21700 | - | SABIC method |
| D | 3.2 | - | SABIC method |
| Toluene Content | <1500 | ppm | SABIC method |

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