

*StarAir*<sup>®</sup>

Polyphenylene Ether (PPE)

# Technical Data Sheet

## StarAir<sup>®</sup> LXN045

StarAir<sup>®</sup> LXN045 is a medium-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: (C<sub>8</sub>H<sub>8</sub>O)<sub>n</sub> .

TYPICAL PROPERTIES	TYPICAL VALUE	UNIT	TEST METHOD
<b>PHYSICAL</b>			
特性粘度 Intrinsic Viscosity	45±2.50	cm <sup>3</sup> /g	ISO 1628/1
铜含量 Copper Content	≤1.0	ppm	Internal Method
挥发度 Volatile	≤0.6	%	Internal Method
熔融指数 Melt Index,315°/10kg	8.00 ~15.00	g/10min	ISO 1133
数均分子量 Mn	23000 ~ 28000	-	Internal Method
重均分子量 Mw	45000 ~ 55000	-	Internal Method
分子量分布指数 D	1.90 ~ 2.10	-	Internal Method
<b>THERMAL</b>			
玻璃化转变温度 Tg	216	°C	GB/T 19466.2

## Notes to Users

- ★ All property values shown in this brochure are the typical values obtained under conditions prescribed by applicable standards and test methods.
- ★ This brochure has been prepared based on our own experiences and laboratory test data, and therefore all data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.
- ★ It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure. Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.
- ★ For all works done properly, it is advised to refer to appropriate Technical Catalog for specific material processing.
- ★ For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "MSDS" of the proper material.
- ★ This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.
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