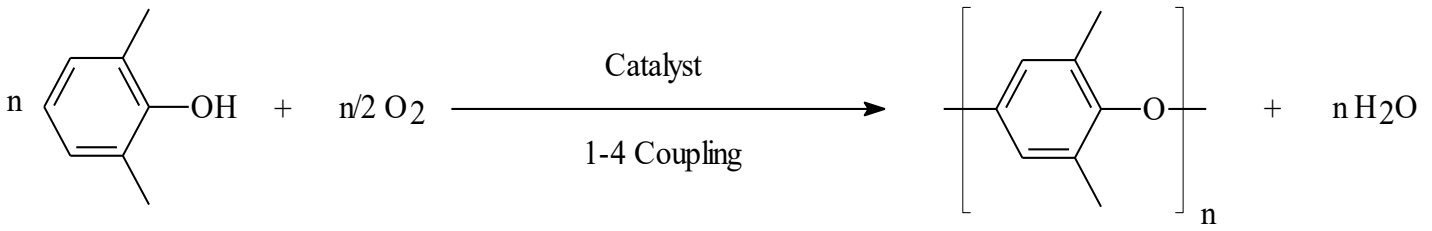
What is PPE?

AsahiKASEI

Polymerization



2,6-Dimethylphenol

Polyphenylene ether (PPE)

Characteristics

- Amorphous polymer
- High heat resistance (Tg : 214 °C, DSC)
- Low density (1.06)
- Good electrical properties (Dielectric constant : 2.45 at 1 MHz, Dielectric loss: 0.0007 at 1 MHz)
- Excellent compatibility with other polymers, especially Polystyrene
- Flame retardance
- Dissolves well in aromatic hydrocarbons (Toluene, Xylene, etc.) and halogenated hydrocarbons (Chloroform, etc.)

Grades

	Grade		Test method
	Standard (S201A)	Low viscosiy (S202A)	
Reduced viscosity	0.52	0.41	0.5g/dl-PPE in $CHCl_3$, 30 °C
Molecular weight (Mn)	ca. 19,000	ca. 16,000	GPC calibrated with polystyrene
Appearance	White powder	White powder	

Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage. These data may be changed because of improvement in properties.

Do not use XYRON™ in any of the following orally- or medically-related applications.

- Orally-related applications : any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages. For drinking water application, please consult Asahi Kasei Corporation.
- Medically-related applications : any part, or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids, or transfusion fluids.