CHEMISTRY THAT MATTERS™

NORYL™ PPE POWDER ADDITIVES

BOOST PERFORMANCE WITH PROVEN PPE TECHNOLOGY

FORMULATE YOUR SOLUTION. NATURALLY.

BOOST HEAT RESISTANCE, FLAME PERFORMANCE & DIMENSIONAL STABILITY

Polyphenylene Ether (PPE) has long been the backbone of the NORYL resin family, powering applications in electrical infrastructure, automotive, energy, water management and industrial markets. NORYL PPE POWDER brings that same reliability into additive form, enabling formulators to elevate the properties of styrenics, (co)polyesters and engineering thermoplastics with a proven, **inherently non-halogenated, non-PFAS** PPE platform to help solve their toughest challenges.

5 BENEFITS OF NORYL PPE IN POWDER FORM

1. NON-HALOGENATED FLAME RETARDANCE (FR)
   - Built-in FR performance without the need for brominated or chlorinated additives
2. VERY LOW MOISTURE UPTAKE
   - Enhances dimensional and hydrolytic stability and long-term performance in moisture-sensitive applications
3. HIGHER HEAT RESISTANCE
   - Tg of 214–217°C across 3 grades
4. EXCELLENT ELECTRICAL PROPERTIES
   - Strong dielectric behavior for insulation requirements in electrical and electronic components
5. REGULATORY COMPLIANCE
   - Non-halogenated, non-PFAS platform supports compliance with tightening global regulations

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PORTFOLIO

3 GRADES: EASY TO INTEGRATE INTO EXISTING PROCESSES

- Standard melt compounding compatible
- Solvent blending possible: soluble in toluene, chloroform, tetrahydrofuran
- Compatibilization may be required depending on resin constituents

PROPERTY	UNIT	630*	640E	646E
Physical Form		powder	powder	powder
Bulk Density (ISO 1183)	kg/m3	460	350	400
Mean resin particle size**	µm	190	200	200
Glass transition temperature,Tg**	°C	214	216	217
Intrinsic Viscosity**	dl/g	0.33	0.42	0.49

* Material only produced in AMR region, E version is produced only in EUR region
** SABIC method

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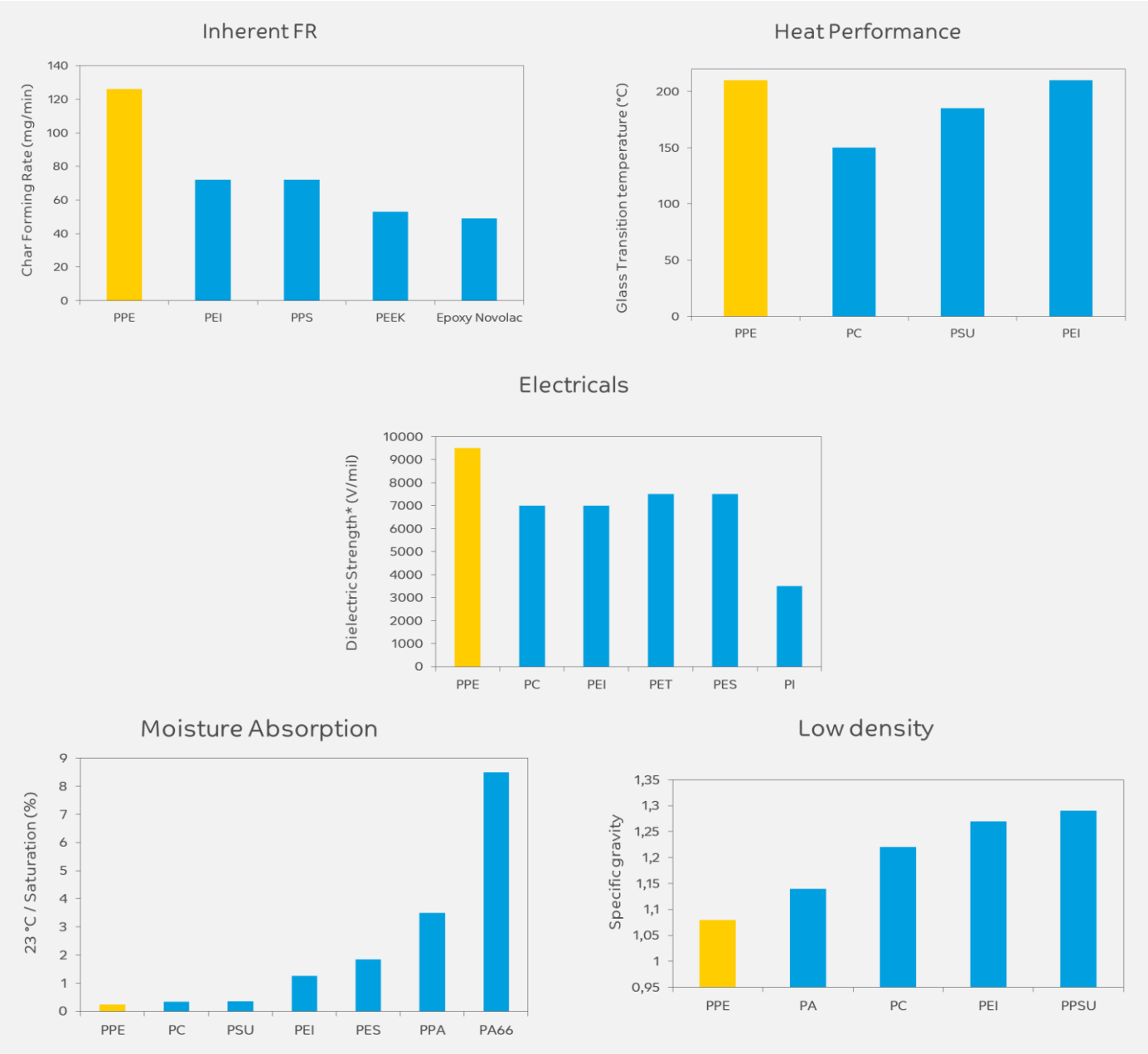
THE PERFORMANCE EDGE

COMPARATIVE ADVANTAGES

Across every property formulators care about: flame retardance, density, electrical insulation, moisture resistance, and heat performance, NORYL PPE powder may consistently outperform conventional engineering polymers. The comparative data* demonstrates that PPE delivers a balanced, multi-functional boost that alternative materials struggle to match. For formulators, it translates into simpler, more efficient material design: one additive that elevates multiple performance attributes at once, reduces reliance on halogenated FR systems, and supports sustainability and regulatory compliance.



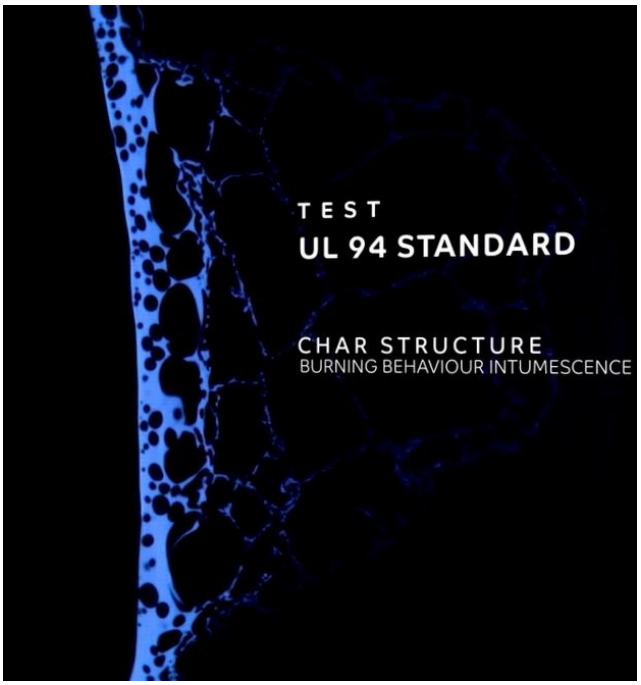
*Source: SABIC Technology & Innovation Data

BEYOND MATERIALS

TRY, TEST AND VALIDATE WITH US

We offer world-class application technology support to help you choose FR materials for electrical applications. For technical assistance, SABIC's Fire & Electrical Center of Excellence offers customers a wide range of test capabilities including:

- Glow Wire Ignition Test - IEC 60695-2
- Comparative tracking Index - IEC 60112 / ASTM D3638-12
- UL 94, 5V and HB
- OSU Heat Release - FAR 25.853 Chapter 5, ASTM E906, E906M
- FTIR Toxicity - ISO 19702-2015E
- Cone calorimeter - ISO 5660 / ASTM E1354



We don't just supply materials; we partner in innovation.

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SABIC MATERIAL FINDER
Find the right Specialties material for your application ▸

NORYL RESINS

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