

High Performance Polymers Powder & Solution Coatings

High Performance

Celazole® PBI
(Polybenzimidazole)
Powder/Solution

Tg=427°C

NOWE™
(Aromatic thermosetting
Copolyester - ATSP)
Powder

HDT=300°C

AURUM™
(Thermoplastic Polyimide)
Powder/Dispersion

Tg=245°C

Dexnyl© PEKK
(Polyetherketoneketone)
Powder/Dispersion

Tg=160°C

Dexnyl© PEEK
(Polyetheretherketone)
Powder/Dispersion

Tg=145°C



PBI, Copolyester, TPI, PEKK and PEEK can withstand high temperatures. They are compatible with different additives. These HPPs are corrosion resistant and offer excellent tribological properties.

Reduced coating thickness offers improved flexibility and cost saving advantages.

Material	PA, PPS, PES	PAI - Enamel	AURUM™
Coating method	Extrusion	Solution	Extrusion
Thickness	Thick	Thin	Thin / Thick
Heat resistance	Up to 180 °C	Up to 250 °C	< 235 °C
Dielectric Voltage	50 – 100 kV/mm Complete insulator	≥ 100 kV/mm Pin hole may exist	≥ 100 kV/mm Complete insulator

High Performance Polymers

Thermoplastics for Extrusion Coating

AURUM™
(Thermoplastic Polyimide) Granules

Tg=245°C

Dexnyl©PEKK
(Polyetherketoneketone) Granules

Tg=160°C

Dexnyl©PEEK
(Polyetheretherketone) Granules

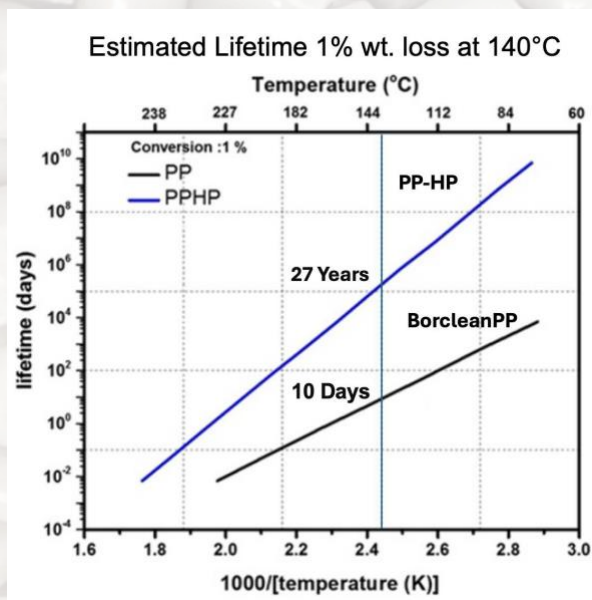
Tg=145°C



AURUM™ TPI
Low outgassing, high purity

AURUM™, PEKK and PEEK have excellent mechanical strength, exceptional chemical and heat ageing resistance. These HPPs offer high electric strengths at cryogenic, ambient and elevated temperatures.

Dexnyl© PP-HP
(Polypropylene) Granules



PP-HPs outperform commercially available PP in applications that require constant high temperatures (>100 °C) and/or high electric field conditions.