P-PA

Polyester Paint Arrest Filter · EN779 / MERV / ISO 16890

FILTLAB



DESIGN FEATURES & ENGINEERING NOTES

Progressive PET Fiber Media
Multi-layer polyester construction combines coarse perforated mesh with fine fiber layers for progressive particle capture, maximising dust-holding capacity per unit depth.

High Paint-Holding Capacity
Dense fiber matrix provides volumetric paint-holding capacity up to 25 g/m², extending replacement intervals in high-throughput spray booth environments.

Flame-Retardant Construction
Media rated F1 per DIN 53438 and B1 per GB/T 17591-2006, satisfying fire-safety requirements for paint spray booth and industrial coating installations.

Moisture-Resistant Medium
Polyester fiber construction maintains structural integrity at relative humidity up to 80% RH, resisting moisture-induced deformation and performance degradation.

Extended Service Life
High-strength PET fiber weave delivers 3–5× longer service life versus conventional paint mist filter materials under equivalent airflow and loading conditions.

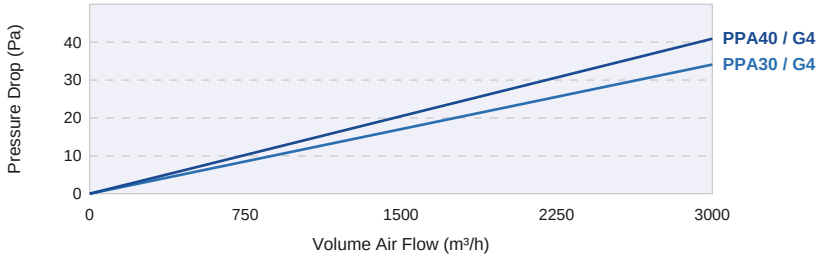
Broad-Spectrum Particle Capture
Engineered to capture particles ≥5 µm including paint overspray, oil mist, and industrial aerosols — efficiency up to 95% per EN779 G4 classification.

PERFORMANCE MATRIX — EN779 TESTED · MERV / ISO 16890 EQUIVALENT

Model	Thickness (mm)	Weight (g/m²)	ASHRAE 52.2	EN779	ISO 16890	I.N.P (Pa)	F.N.P (Pa)	Capture Efficiency
PPA30	30	300	MERV 7	G4	ISO Coarse	25	300	>90%
PPA40	40	400	MERV 7	G4	ISO Coarse	30	300	>95%

Measurement Method: EN779:2012 | MERV & ISO 16890 = equivalent (Eurovent REC 4/23) | Initial Resistance ±10% | Other sizes available upon request

PRESSURE DROP vs. AIRFLOW (P-PA — Rated 2,200 m³/h)



BILL OF MATERIALS & OPERATING CONDITIONS

Filter Medium	Multi-layer Polyester Fiber (PET)	**Max. Temperature**	80 °C
Construction	Coarse Perforated Mesh + Fine Fiber Layers	**Make Temperature**	≤100 °C
Wetting Agent	None	**Max. Humidity**	80% RH
Flame Retardant	F1 / DIN 53438 · B1 / GB·T 17591-2006	**Rated Face Vel.**	0.6 m/s
Flammability	Non-Inflammable	**Initial ΔP**	25–30 Pa
Filter Object	≥5 µm Dust, Paint Mist, Oil Mist	**Max Allowed ΔP**	300 Pa

APPLICATION SELECTION GUIDE

EN779 / MERV	ISO 16890	Typical Application	Contaminants Removed	Pre-filter
G4 / MERV 7	ISO Coarse	Paint Spray Booths	Paint mist, overspray, pigment, oil mist	G3 optional
G4 / MERV 7	ISO Coarse	High-Precision Spray Coating	Fine paint mist, aerosols, sub-10 µm particles	G3 recommended
G4 / MERV 7	ISO Coarse	Industrial Oil Mist Exhaust	Oil mist, fumes, coarse aerosol particles ≥5 µm	None required