Micro Powders

TECHNICAL DATA

Polyfluo® 523AL

A highly engineered HDPE/PTFE/aluminum oxide nanocomposite for unsurpassed scratch and scuff resistance

Features and Benefits

- Maximum scratch and scuff resistance with slip and lubricity
- HDPE/PTFE composite reinforced with 300 nm aluminum oxide nanoparticles (Mohs Hardness 9)
- Easier-to-disperse nanotechnology in a safe, non-nano powder
- Extra fine particle size provides excellent gloss retention and film clarity
- Composite wax/aluminum oxide particle is less abrasive on processing equipment compared to free aluminum oxide
- Conforms to (EU) 2019/1021 & Stockholm Convention (POP)

Composition

HDPE/PTFE/aluminum oxide

Recommended Addition Levels

0.5-1.5% (on total formula weight)

Systems and Applications

Water based, solvent based and energy curable coatings and inks. Industrial coatings (including plastic and metal); stains, sealers and varnishes; wood coatings; printing inks and OPV's (including flexo and gravure); powder coatings; coil coatings; rubber additives.

Typical Properties*

	Polyfluo 523AL
Melting Point ° C	113 - 117
Density @ 25 ° C (g/cc)	1.09
NPIRI Grind	1.0 - 2.0
Maximum Particle Size (µm)	15.56
Mean Particle Size (µm)	3.5 - 5.5

PTFE (PFAS) free alternatives: MPP-611AL, Superslip 6515AL

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