



Comparison of Delrin® 100AF & Delrin® AF Blend

Delrin® AF Blend

Delrin AF Blend is a unique thermoplastic material for use in moving parts in which low friction and long wear life are important. It is a combination of PTFE fibers uniformly dispersed in Delrin acetal resin. This combination offers better wear characteristics than unfilled Delrin.

Delrin AF Blend, supplied as a 2:1 blend of Delrin AF100 and Delrin 150 resins, has excellent sliding/friction properties. Bearings made of Delrin AF Blend can operate at higher speeds while exhibiting reduced wear. These bearings are also essentially free of slip-stick behavior because the static and dynamic coefficient of friction are closer than with most plastics. Delrin AF Blend contains 13% PTFE fibre. Variations may also include 13% PTFE powder-filled.

Delrin AF Blend retains 90% of the strength that is inherent in unmodified Delrin acetal. Some properties are changed due to the addition of the softer PTFE fiber.

The natural color of Delrin AF Blend is Dark Brown.

Delrin® AF 100

Unblended Delrin AF, offers a slightly higher limiting PV and lower coefficient of friction due to additional PTFE content. This added PTFE typically decreases the wear capability and impact strength. Delrin AF 100 (also known Delrin 100AF Full Strength) contains 20% PTFE Fibre and is only available on a custom basis.

Wear Rate, Coefficient of Friction and Limiting PV Data*

	Wear Factor "k" (1)	Coefficient of Friction Static (2)	Coefficient of Friction Dynamic (3)	Limiting PV (4)
Delrin AF Blend	57	.18-.19	.19-.20	8,300
Delrin AF	65	.18-.19	.19-.20	11,000
Turcite* A	213	.29-.34	.20-.23	6,500

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