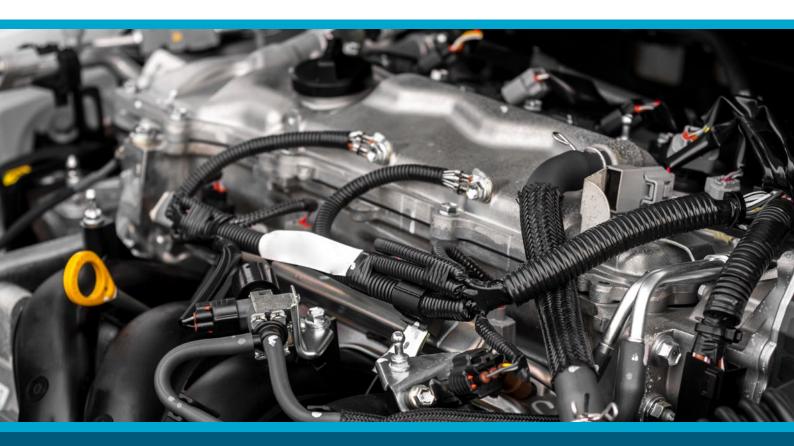
DISTRUPOL[®]



Design, Develop & Deliver

with Distrupol and AKRO-PLASTIC

AKRO-PLASTIC produces high-tech compounds for various industries like automotive, electro and electronics, machine building and sports and leisure. Products with outstanding properties for high reinforced materials with tight and consistent tolerances.

- AKROLOY[®] PA partially aromatic PA
- AKROMID[®] A and B PA 6.6 and PA6
- AKROMID[®] Lite PA/PP Blends
- AKROTEK[®] PK Aliphatic Polyketone
- AKROMID[®] HI PA high impact
- AKROMID[®] M PA filled
- AKROMID[®] ICF, AKROLOY[®] ICF, AKROTEK[®] ICF - Carbon-fibre reinforced compounds

- AKROMID[®] RM PA/ABS, PA/PBT blends
- AKROMID[®] FR PA flame retardant
- AKROMID[®] C PA6.6./6
- AKROMID[®] S PA 6.10
- AKROMID[®] T PPA
- AKROLEN[®] PP PP compounds

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Distrupol, your supply partner for AKRO-PLASTIC compounds. Contact us today to find out more.



AKROMID® A - PA6.6

Properties

- Very good impact strength (product-dependent)
- Easy to process
- Very high strength & stiffness (product-dependent)
- Minimal creep (product-dependent)
- Excellent chemical resistance
- Good dimensional stability (product-dependent)
- Good tribological properties (product-dependent)
- Good colouring
- Design material for structural components
- High-quality surface finish (product-dependent)

• Non-reinforced grades

Grades

- Glass fibre reinforced grades up to 60%
- Glass bead filled grades up to 50%
- Mineral filled grades up to 40%
- Glass fibre/mineral and carbon fibre reinforced grades
- ICF = Cost competitive carbon fibre grades
- Flame-retardant grades (UL94 V-0 listed, free of red phosphorus and halogen)
- Dry-impact-resistant grades, cold-impact-resistant grades
- Hydrolytically stable grades
- Electroplating grades

Grades

AKROMID® B- PA6

Properties

- Very good impact strength (product-dependent)
- Easy to process
- Very high strength & stiffness (product-dependent)
- Minimal creep (product-dependent)
- Excellent chemical resistance
- Good dimensional stability (product-dependent)
- Good tribological properties (product-dependent)
- Good colouring
- Design material for structural components
- High-quality surface finish (product-dependent)

- Non-reinforced grades
- Glass fibre reinforced grades up to 60%
- Glass bead filled grades up to 50%Mineral filled grades up to
- 40%
- Glass fibre/mineral and carbon fibre reinforced grades
- ICF = Cost competitive carbon fibre grades
- Tribological modified grades
- Flame-retardant grades (UL94 V-0 listed, free of red phosphorus and halogen)
- Dry-impact-resistant grades, cold-impact-resistant grades
- Electroplating grades

AKROMID® C- PA6.6/PA 6 Blend

Properties

- Polymer blend of PA6.6 and PA6
- High impact strength (product-dependent)
- Less moisture-dependent than PA6
- High chemical resistance
- Better flow characteristics than PA6.6
- Aesthetic surface finish
- Good abrasion resistance
- Easy to process

• Non-reinforced grades

Grades

- Glass fibre reinforced grades up to 50%
- Impact-modified grades
- Flame-retardant grades (UL94 V-0, free of red phosphorus and halogen)
- XTC= Long-term heatstabilisation for continuous use temperatures more than 230°C

AKROMID[®] RM- PA 6 Blend

Properties Grades

- PA 6-based polymer blends with reduced moisture absorption compared with PA6
- Low warpage
- High impact strength (product-dependent)
- Very good surface finish
- Improved CaCl2 resistance (product-dependent)
- Greater property consistency in a moist environment than PA6 and PA6.6
- Greater stiffness and strength following conditioning than corresponding PA6/PA6.6 compounds

- RM-D: PA 6 blend with amorphous blending component, non-reinforced and reinforced
- RM-M: PA 6 blend with crystalline blending component, reinforced
- Glass fibre reinforced grades up to 50%
- Process-optimised compounds

Grades

extrusion

up to 60%

• Compounds with increased chemical resistance

• Non-reinforced grades for

• Glass fibre reinforced grades

injection moulding and

• Flame-retardant grades

AKROMID® S- PA 6.10

Properties

- Biopolymer: Polyamide 6.10 on basis of renewable raw materials (not biodegradable). Property profile similar to PA6, but with the following essentials:
- Greatly reduced moisture absorption compared with PA6 and PA6.6
- Good impact strength
- Very good hydrolysis resistance
- Very good chemical resistance
- Good tribological properties

AKROMID® T - PPA

Properties

- High performance polymer. Polyphthalamide for highly mechanical and highly temperature loaded components. Property profile surpasses PA6.6:
- High heat resistance
- High heat ageing resistance
- Very good chemical resistance
- Low moisture absorption
- High mechanical properties
- Good dimensional stability

AKROLOY® PA- PA Blend

Properties

- Blend of PA6.6 with partially aromatic CoPA
- Low moisture absorption
- Dimension stable
- High stiffness and strength even after moisture absorption
- Metal replacement
- Excellent surface finish, even on highly reinforced grades
- Extremely easy to process

Grades

Grades

stress

40%

• Reinforced and non-

reinforced grades • Up to 60% glass fibre

reinforced grades for parts

reinforced grades for use in

incl. approval for KTW/W270,

drinking water application

WRAS, ACS and NSF61

• Carbon fibre reinforced

• Mineral-filled grades up to

under high mechanical

• Up to 60% glass fibre

- Non-reinforced grades
- Glass fibre reinforced grades up to 60%
- Process optimized grades
- Glass bead filled grades
- ICF= Cost competitive carbon fibre grades

AKROLEN® PP- PP Compound

Properties

- Blend and hybrid systems
- Tailor made products
- Custom colours
- Flame retardant (UL94 V0)

AKROTEK[®] PK- Aliphatic Polyketone

Properties

- Low permeability
- Short cycle times
- Good resilience
- Extremely high chemical resistance
- Easily coloured
- Construction material for structural components
- Non-reinforced grades for injection moulding and extrusion

Grades

Grades

• Customer-specific

compounds

- Glass fibre reinforced grades up to 60%
- Flame-retardant grades
- Impact modified grades
- Carbon fibre reinforced grades
- Tribological modified grades

AKROMID[®] ICF, AKROLOY[®] ICF, AKROTEK[®] ICF - Carbon-fibre reinforced compounds

Properties	Grades
 Good tribological properties (low-wear) 	 Carbon-fibre reinforced compounds up to 40%
Good electrical conductivity	• Based on PA 6, PA 6.6, PPA,
Good thermal conductivity	 PA blend and aliphatic polyketone XTC = Long term heat stabilisation for continuous
• Excellent stiffness and flexural stiffness	

- Good flexural stress
- Low linear thermal expansion
- Excellent price / performance ratio
- 200°C • GIT optimised grades

use temperatures more than

Tech topics	
Requirement	Suitable product
High heat up to 230°C	AKROMID® XTC
Competitive Carbon fibre	AKROMID® ICF
Low moisture uptake	AKROMID® RM and Lite
Weight reduction	AKROMID® Lite
Cold and dry impact	AKROMID® HI

Properties

AKROMID[®] Lite + XtraLite- PA Blend

- Lower-density PA6- and PA6.6 based polymer blend
- Meets automotive industry requirements for weight savings and CO₂ reduction

- for TPE
- Lower moisture absorption than PA6
- Greater notched impact strength than PA6
- Volume/cost pricing advantages

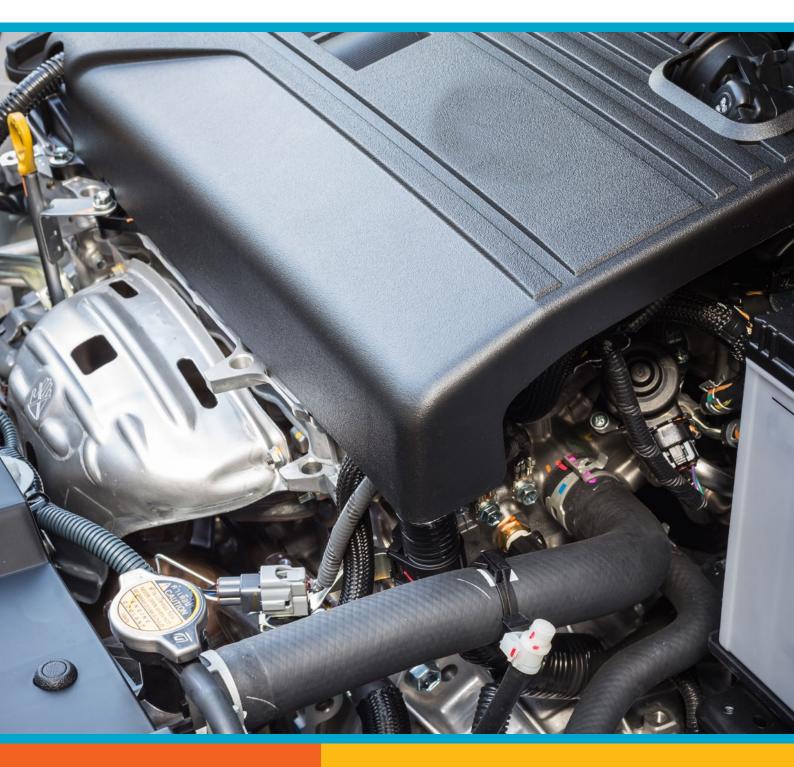


grades up to 50%

Grades

- Non-reinforced grades
- Glass fibre reinforced grades
- Glass bead filled grades
- Adhesion modified grades

DISTRUPOL[™]



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Distrupol, your polymer solutions partner.

Our highly experienced sales and rechnical team will support you with mould design, polymer selection, resting and process optimisation.

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