

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/Polyester blends
- AKROMID® FR- PA flame retardant
- AKROMID® C- PA6.6./6
- AKROMID® S - PA 6.10
- AKROMID® T- PPA
- AKROLOY® PARA

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

AKROMID® A - PA6.6

Properties	Grades
<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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• 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

AKROMID® B- PA6

Properties	Grades
<ul style="list-style-type: none">• 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)	<ul style="list-style-type: none">• 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	Grades
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Non-reinforced 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 heat-stabilisation for continuous use temperatures more than 230°C

AKROMID® RM- PA 6 Blend

Properties	Grades
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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• Compounds with increased chemical resistance

AKROMID® S- PA 6.10

Properties	Grades
<ul style="list-style-type: none">• Biopolymer: Polyamide 6.10 on basis of renewable raw materials (not bio-degradable). 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	<ul style="list-style-type: none">• Non-reinforced grades for injection moulding and extrusion• Glass fibre reinforced grades up to 60%• Flame-retardant grades

AKROMID® T - PPA

Properties	Grades
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Non-reinforced grades• Glass fibre reinforced grades up to 60%• Process optimized grades• Glass bead filled grades• ICF= Cost competitive carbon fibre grades

AKROLOY® PA- PA Blend

Properties	Grades
<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Reinforced and non-reinforced grades Up to 60% glass fibre reinforced grades for parts under high mechanical stress Up to 60% glass fibre reinforced grades for use in drinking water application incl. approval for KTW/W270, WRAS, ACS and NSF61 Mineral-filled grades up to 40% Carbon fibre reinforced grades up to 50%

AKROMID® Lite + XtraLite- PA Blend

Properties	Grades
<ul style="list-style-type: none"> Lower-density PA6- and PA6.6 based polymer blend Meets automotive industry requirements for weight savings and CO₂ reduction Lower moisture absorption than PA6 Greater notched impact strength than PA6 Volume/cost pricing advantages 	<ul style="list-style-type: none"> Non-reinforced grades Glass fibre reinforced grades Glass bead filled grades Adhesion modified grades for TPE

AKROLOY® PARA – High end aromatic compounds

Properties	Grades
<ul style="list-style-type: none"> Based on polyarylamide Higher strength compared to AKROLOY® PA Better flow properties compared to AKROLOY® PA Excellent surface aspect Good chemical resistance Low creep tendency Constant properties 	<ul style="list-style-type: none"> Glass fibre reinforced grades up to 60%

AKROTEK® PK- Aliphatic Polyketone

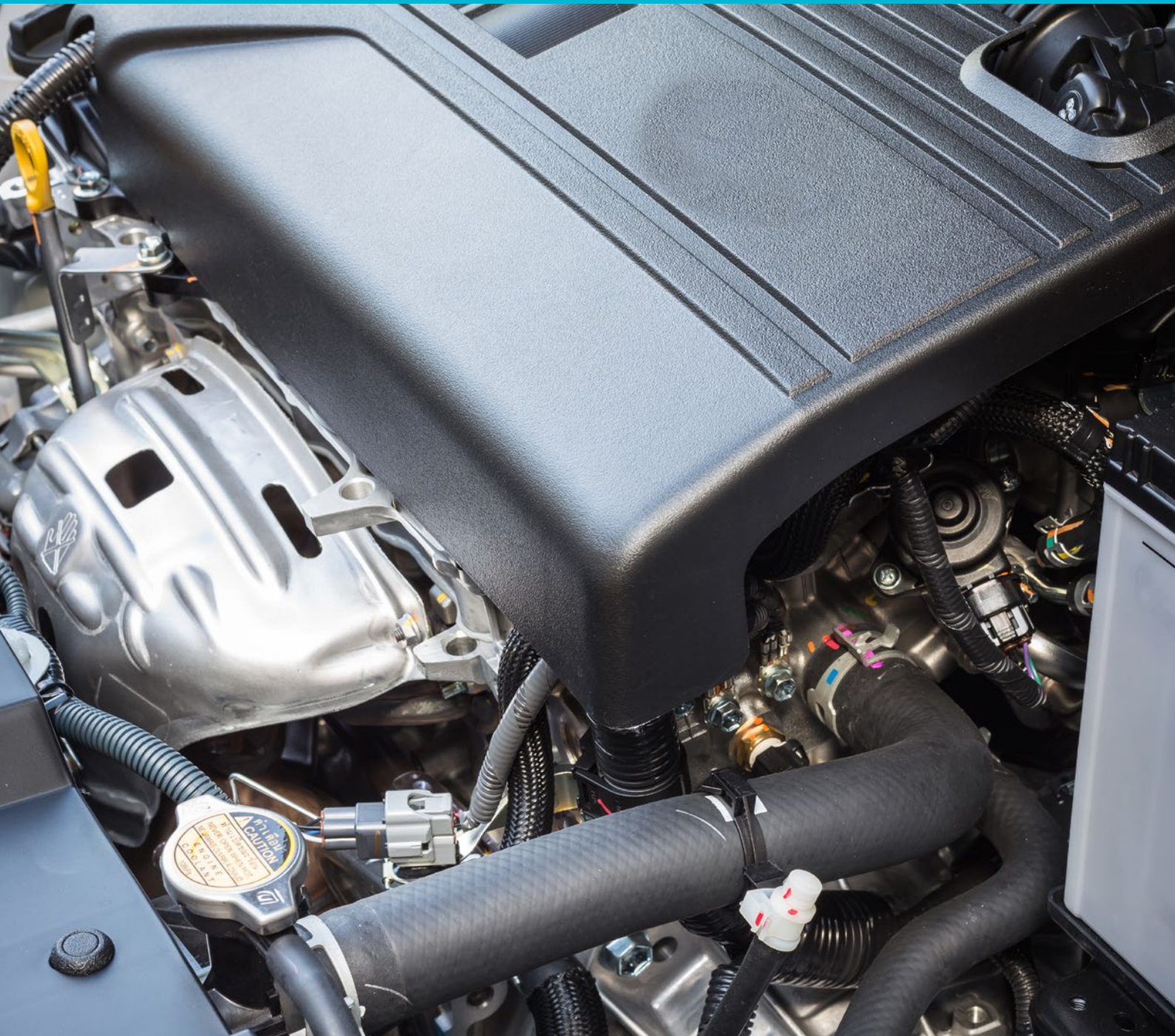
Properties	Grades
<ul style="list-style-type: none"> Low permeability Short cycle times Good resilience Extremely high chemical resistance Easily coloured Construction material for structural components 	<ul style="list-style-type: none"> Non-reinforced grades for injection moulding and extrusion Glass 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
<ul style="list-style-type: none"> Good tribological properties (low-wear) Good electrical conductivity Good thermal conductivity Excellent stiffness and flexural stiffness Good flexural stress Low linear thermal expansion Excellent price / performance ratio 	<ul style="list-style-type: none"> Carbon-fibre reinforced compounds up to 40% Based on PA 6, PA 6.6, PPA, PA blend and aliphatic polyketone XTC = Long term heat stabilisation for continuous use temperatures more than 200°C GIT optimised grades

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



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Distrupol, your polymer solutions partner.

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