

**PARTNER HIGHLIGHT**



**ENGINEERED THERMOPLASTICS**

A. Schulman specializes in the design and manufacture of high-performance plastic compounds and resins. We offer enhanced performance characteristics for blow molding, injection molding and extrusion applications to meet customer's demanding requirements. Many of these products meet NSF, FDA, UL or OEM requirements. Let us customize the performance, appearance and processability of our products to meet your most demanding application.

A Broad, Ever-Expanding Plastics Portfolio

**Engineered Polymers**

- SCHULAMID® PA
- CENTREX® ASA
- SCHULADUR® PBT, PET
- DIAMOND® ABS, ASA, AES
- POLYMAN® ABS, ASA, SAN, PC
- FORMION® Reinforced Ionomer
- CLARIX® Ionomer
- SCHULAFORM® POM

**Engineered Alloys**

- SCHULABLEND® PA/ABS, PA/ASA, PA/PP, Other
- DIAMALLOY® ABS/PC, ABS/PA, ASA/PC, Other

**Flame Retardant Products**

- POLYFLAM® Flame Retardants and Concentrates
- SCHULAMID® Flame Retardants
- SCHULADUR® Flame Retardants
- DIAMOND® Flame Retardants
- DIAMALLOY® Flame Retardants

**Polyolefin Compounds**

- POLYFORT® PP, PE, EVA
- POLYTROPE® TPO
- POLYTROPE® STR
- GAPEX®
- OPTUM®
- AGRIPLAS® Biofilled

**Soft Touch Flexible Products**

- DURAGRIP®
- ALCRYN®
- INVISION® TPE, TPV
- POLYVIN® PVC
- SOFTFLEX® TPE

**Distribution Products**

- Schulman Polyethylene
- Schulman Polypropylene
- Merchant Styrenics
- ExxonMobil Polyethylene
- Samsung Chemical Distribution
- Synthesis Eco-Flex R-TPV®

**Products Through Acquisition**

- Citadel® Products

**WE ARE WORLDWIDE.**

A. Schulman operates facilities in the North America, Latin America, Europe, Middle-East, Africa and Asia-Pacific regions. Its plants, offices and technical centers are strategically located to serve customer needs in markets throughout the world.

**FOCUSED ON YOUR SUCCESS.**

No matter how you define success, A. Schulman has the materials expertise, processing know-how, market knowledge and application experience to help you achieve it..

# ENGINEERED THERMOPLASTICS

## PARTNER HIGHLIGHT



### POLYPROPYLENE COMPOUNDS

#### POLYFORT®

POLYFORT® products consist of Polypropylene resins that meet stringent OEM specifications. These grades are formulated for improved processability in injection molding, profile and sheet extrusion, and blow molding. POLYFORT® grades are available in mineral-filled, glass-reinforced, mineral/glass-reinforced, and unfilled versions, in natural and UV resistant matched colors.

#### Key characteristics of POLYFORT® are:

- Attractive economics
- Can be compounded for molding, extrusion or blow molding processes
- Good balance of properties among stiffness, durability and impact resistance
- UV stability
- Low specific gravity
- Chemical resistance

POLYFORT® compounds can provide part designers and manufacturers with material solutions for exceptional structural and environmental durability. Polyfort® products can be supplied for applications requiring high-temperature resistance as well as resistance to high flexural and tensile loads.

- High heat resistance
- High impact strength
- Different viscosities
- Good weatherability
- High scratch and mar resistance

### FLAME RETARDANT COMPOUNDS

#### SCHULADUR® FR

SCHULADUR® FR is flame retardant polyester and a blend with UL94 V-0 classification.

- PBT V0 unreinforced grades with impact modification
- PBT/ASA V0 with low warpage
- PET V0 compounds

#### SCHULAMID® FR

SCHULAMID® FR are Flame retardant PA 6 and PA 66 based engineered compounds.

#### SCHULAKETON® FR

POLYFLAM® Key characteristics of POLYFLAM® are:

- Flame retardant compounds based on several polymers
- UL94 V-2 or V-0 classifications
- Glow wire flammability Index
- Glow wire ignition behavior (no flame)
- Several UL approved grades
- Grades with low smoke density and toxicity

#### POLYFLAM®

POLYFLAM® product portfolio consists of flame retardant Homo- and Copo-Polypropylene compounds with unfilled or reinforced Polypropylene compounds and halogenated and halogen free grades. Glow wire grades with "no flame" characteristics are also available.



### POLYAMIDE COMPOUNDS

#### SCHULAMID®

SCHULAMID® grades are available for injection molding, extrusion and blow molding. Modified grades are also available for special processing technologies.

A wide range of modifications makes SCHULAMID® one of the most suitable and versatile engineered plastics!

Key characteristics of SCHULAMID® are:

- High stiffness, strength and temperature resistance
- Excellent impact resistance and toughness at low and high temperatures
- High dynamic strength
- Great abrasion resistance
- Hydrolytic stability (special grades)
- Excellent chemical resistance
- Easy processability
- Excellent electrical properties

### POLYACETALS

#### SCHULAFORM®

SCHULAFORM® POM is a high-quality polyoxymethylene (acetal) copolymer with excellent low wear and friction characteristics and high stiffness and toughness – even without the use of fillers. Because of its outstanding mechanical properties, SCHULAFORM® POM is ideally suited for engineered components such as gears and cams, which have to function under extreme conditions.

Key characteristics of SCHULAFORM are:

- High rigidity and strength
- High yield strain and relaxation
- Excellent sliding properties
- High creep resistance
- Low water absorption
- Excellent dimensional stability
- Very high chemical resistance

### HIGH PERFORMANCE AND SPECIALTY COMPOUNDS

#### ECOTRAN® AB

#### ECOTRAN®

PPS high-performance compounds are based on an eco-friendly polymer production process, which results in low outgassing values and freedom of chlorine.

#### SCHULAKETON®

Our polyketone grade, SCHULAKETON®, is formulated for time and energy savings by efficient processing especially for injection molding, extrusion, blow molding. These materials are offered as neat and natural, but as well mineral and glass filled and reinforced, colored and as special compounds for several applications like PTFE-filled or reinforced with Aramide- or Carbon fibers.



**800-920-8033**

#### **For More Information:**

#### **General Polymers**

#### **Thermoplastic Materials**

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