

Elastollan® TPU

Flame Retardant Products



Elastollan® Thermoplastic Polyurethane (TPU) is offered in a variety of halogen free, flame-retardant grades. BASF empowers manufacturers to achieve the perfect balance of flame-retardant protection and material performance, tailored to meet your specific application requirements.

KEY PROPERTIES



Flame Retardant Properties

- Halogen & PVC free
- UL 94 V0-V2
- Available in shore 75A – 67D
- Weld Slag Resistant
- Low conductivity

TPU Properties

- Abrasion resistant
- Excellent chemical resistance
- Cut & Tear resistance
- Hydraulic stability
- Recyclable

APPLICATIONS



- Cable sheathing
- eMobility/EV Charging
- Consumer electronics
- Automotive
- Connectors
- Robotics/Automation
- Mining
- Marine
- Films

GRADES



High Temperature: Our unique 3000-series based fire-resistant grades offer a high heat deflection temperature while maintaining the same ease of processability as our standard grades. They are effective across a broad spectrum of service temperatures, from -40°C to 150°C. These grades meet the UL 94 V0 rating, even at a thickness of just 0.7 mm.

Glass Reinforced: Reduces the coefficient of thermal expansion, resulting in longer service life under demanding applications requiring multiple heating and cooling cycles. These fire-retardant composites have high heat deflection temperature, impact resistance and high modulus while remaining elastic.

Transparent: Ideal solution for optical clarity and aesthetically demanding applications in cable, film and sheet, and extruded profiles. Non-halogenated flame retardant that can achieve flame class of V2 and V0.

Matte Finish: Offers aesthetic for highly visible applications with reduced discoloration compared to natural coloring.



THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND ARE BASED ON BASF'S CURRENT KNOWLEDGE AND EXPERIENCE. THEY ARE PROVIDED FOR GUIDANCE ONLY, AND DO NOT CONSTITUTE THE AGREED CONTRACTUAL QUALITY OF THE PRODUCT OR A PART OF BASF'S TERMS AND CONDITIONS OF SALE. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE OF THE PRODUCT, BASF RECOMMENDS THAT THE READER CARRY OUT ITS OWN INVESTIGATIONS AND TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR ITS PARTICULAR PURPOSE PRIOR TO USE. IT IS THE RESPONSIBILITY OF THE RECIPIENT OF PRODUCT TO ENSURE THAT ANY PROPRIETARY RIGHTS AND EXISTING LAWS AND LEGISLATION ARE OBSERVED. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH HEREIN. OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. ANY DESCRIPTIONS, DESIGNS, DATA AND INFORMATION GIVEN IN THIS PUBLICATION MAY CHANGE WITHOUT PRIOR INFORMATION. THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTIONS, DESIGNS, DATA OR INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT THE READER'S RISK.

® = registered trademark of BASF. © 2025 BASF Corp, Florham Park, NJ 07932. All rights reserved.