

# Desmopan® 9385A HFFR

Halogen Free Flame Retardant TPU for extrusion applications

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# Desmopan® 9385A HFFR

## Why Covestro TPU for extrusion?

- Excellent process behavior / wide processing window
- Flame retardant TPU solution (V0)
- Halogen free
- Good abrasion resistance
- Excellent tensile and tear strength
- Low temperature flex to -40°C
- Excellent resistance to oil, grease and high energy radiation
- Good resistance to bacteria
- Complies to RoHS and REACH





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## Main applications



### Automotive

- Automobile cables (ABS/ TCS / ESC)
- Charging cables for hybrid and electric vehicles
- Wire harness and tube
- Grommets and plugs
- ESP and connector



### Communication

- Cable Jackets
- Buffers
- Connectors and Boots
- Grommets and Seals



### Consumer Electronic

- HDMI cable
- Data and signal transmission and signal USB cable
- Charging cable



### Industrial & Automation

- Robotic cable
- Sensor cable
- Drag chain
- Trailing cables in automation
- Seismic Cable

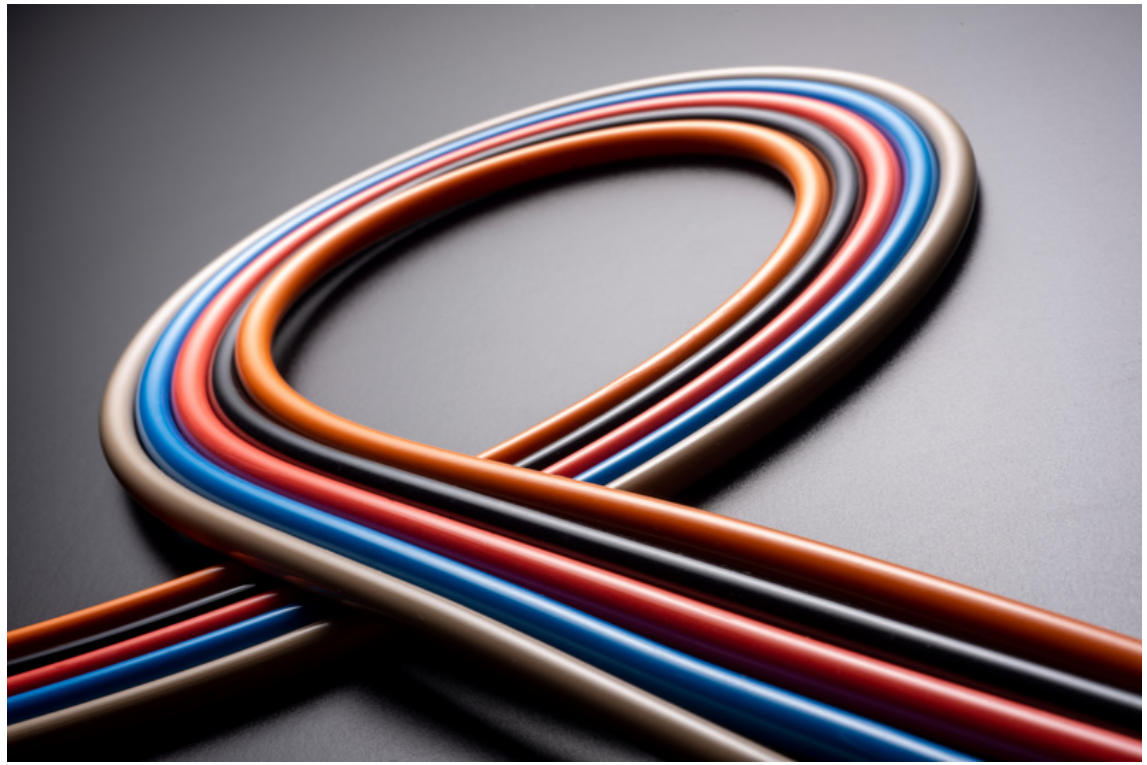


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## Typical proprities

| Properties | Standard | Value |
|---|---|---|
| Hardness | DIN ISO 7619-1 1second | 88A |
| Stress at 100% strain | DIN 527-2/A-1 | 10,5MPa |
| Stress at 300% strain | DIN 527-2/A-1 | 13,5MPa |
| Tensile elongation at break | EN ISO 527-2 200mm/min | 835% |
| Tensile strength | EN ISO 527-2 200mm/min | 22MPa |
| Abrasion resistance | ISO 4649 | 46 mm³ |
| Specific gravity | EN ISO 1183-3 | 1,17 g/cm³ |
| Flammability 0,8 mm thickness | UL94 (60695-11-10) | V0 * |
| Flammability 3,2 mm thickness | UL94 (60695-11-10) | V0 * |
| Glow wire 1,6 mm thickness | IEC 60695-2-12 | 960 °C |
| Melting point | EN ISO 1133-1 | 190 °C |



* Non-burning drip

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# Extrusion parameters

## Desmopan® 9385A HFFR

### Extrusion

- Desmopan® may be processed on extrusion-machines with common single-flight three-zone screws with a compression ratio of 2.7:1~3:1 and L/D 25~35:1..
- Recommended temperature profiles:

| Die | Section 4 | Section 3 | Section 2 | Section 1 | Hopper |
|---|---|---|---|---|---|
| 170-190°C | 190-200°C | 205-215°C | 205-215°C | 190-200°C | 40-50°C* |

* Cooling water at lowest possible temperature



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# Pre-treatment, Post-treatment and additives

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## Pre-treatment

- TPU resins absorb moisture from the air. To ensure a trouble-free processing and avoid any loss of quality, we recommend drying to a moisture content of < 0.03% with the following drying parameters: 100°C and 2 – 4 hours
- If the granules are too moist, blisters/streaks occur on surface of finished component, the material sticks and the mechanical values, especially abrasion resistant go down.

## Post-treatment

- TPU products attain their optimum physical properties level only after they spent some time at room temperature. Recommended storage after extrusion is 72h.

## Additives

- TPU products can be colored by masterbatches.
- Masterbatch for coloring Desmopan® 9385A must be on polyether TPU basis.
- TPU color masterbatch need to be pre-dried.



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# Thank you for your attention.

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