

# Tisoplen®



**Tisan**

*Polypropylene Solutions*

# Tisoplen®

Polypropylene is a semi-crystalline thermoplastic and best-known member of the polyolefin family. It is an economical material that offers a combination of outstanding physical, mechanical, thermal and electrical properties not found in any other thermoplastics. Reduction of weight and chemical resistance is the main reasons of choosing as a raw material in compounding for different markets.

Tisoplen® Polypropylene homopolymer is the most widely utilized type of polypropylene. It has a high strength to weight ratio and stiffer than its copolymers. Although polypropylene copolymer is softer than homopolymer, it is also tougher and more durable. It offers better impact strength and stress resistance even at low temperatures. Polypropylene random copolymer has flexibility and resistance to very high temperature and pressure. Polypropylene block copolymer is preferred due to its high impact in necessary usage areas.

Tisoplen® compounds are the ideal solution for a wide number of applications requiring a good cost / performance ratio. Special grades and formulations can be developed to meet specific market needs. Tisoplen® compounds can be provided fully colored in customized colors with narrow color specifications colorability even in light colors.

## Main Specifications

- Attractive economics,
- Good balance of properties among stiffness, durability and impact resistance,
- UV stability,
- Low specific gravity,
- Good chemical resistance,
- High stiffness and abrasion resistance,
- Low hygroscopicity
- Easy process ability
- Low smoke density and toxicity for halogen-free flame retardant grades

## Fillers / Reinforcements / Modifiers

- |  |   |
|--|---|
| <ul style="list-style-type: none"><li>• Glass fibers</li><li>• Glass beads</li><li>• Mineral fillers</li><li>• Heat stabilizers</li><li>• Hydrolysis stabilizers</li><li>• Lubricants</li><li>• UV stabilizers,</li><li>• Electrical conductive,</li></ul> | <ul style="list-style-type: none"><li>• Anti-static</li><li>• Anti-scratch</li><li>• Detergent resistant</li><li>• Flame retardant compound with halogen and halogen free<ul style="list-style-type: none"><li>• UL94 V-2 or V-0 classifications (UL approved grades)</li><li>• Glow wire flammability index</li><li>• Glow wire ignition behavior (no flame)</li></ul></li></ul> |
|--|---|

## Markets

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Automotive</li><li>• Electric &amp; Electronics</li><li>• Home appliances</li><li>• Construction</li><li>• Industrial applications</li><li>• Defense industry</li></ul> | <ul style="list-style-type: none"><li>• Safety equipment</li><li>• Transportation</li><li>• Office Furniture</li><li>• Sports</li><li>• Energy</li><li>• Others</li></ul> |
|---|---|

<b>1</b> Mechanical tests	<b>2</b> Physical properties	<b>3</b> Weathering and aging tests
<b>4</b> Flammability tests	<b>5</b> Color arrangement and measurements	<b>6</b> Thermal and flow analysis
<b>7</b> Heat deflection analysis	<b>8</b> Electrical and chemical resistance	<b>9</b> Dimensional tests



Our quality is  
your  
guarantee

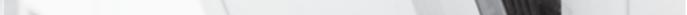
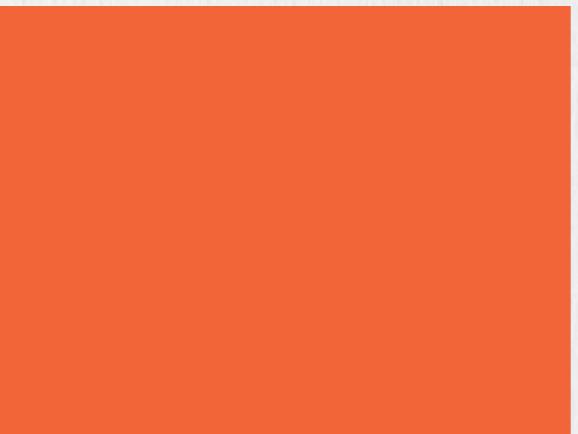
Our product reach reliably the customer having passed all the quality tests in our T-LAB laboratory matching international standards.

More than  
40 years  
**experience**

Tisan Engineering Plastics specialized on production of compounds used as raw materials more than 40 years experience. Tisan produces competitive and favorable solutions to customers based on their requirements. Our aim is to provide competitive solutions, qualified products, flexible production, high-speed service with strong technical infrastructure and human quality in both standard and exclusive products for all markets.

## POLYPROPYLENE HOMOPOLYMER

<b>Tisoplen C 10D01 F01 K01 K03 R01</b> PPH, 10% talc filled, flame retardant-halogen, UV stabilized, antistatic	<b>Tisoplen C 20D01 K01 R01</b> PPH, 20% talc filled, antistatic	<b>Tisoplen C 30D01 K01 K02 K03 R01</b> PPH, 30% talc filled, heat&UV stabilized, antistatic	<b>Tisoplen C 50D03 R01</b> PPH, 50% glass fiber reinforced
<b>Tisoplen C 10D01 F02 R01</b> PPH, 10% talc filled, flame retardant-halogen free	<b>Tisoplen C 20D01 K04 R01</b> PPH, 20% talc filled, impact modified	<b>Tisoplen C 30D02 R01</b> PPH, 30% calcium carbonate filled	<b>Tisoplen C 50D10 R01</b> PPH, 50% barium sulphate filled
<b>Tisoplen C 10D01 R01</b> PPH, 10% talc filled, antiscratch	<b>Tisoplen C 20D01 K13 R01</b> PPH, 20% talc filled, antiscratch	<b>Tisoplen C 45D03D02 R01</b> PPH, 45% glass fiber reinforced and talc filled	<b>Tisoplen C 5D01 F01 R01</b> PPH, 5% talc filled, flame retardant-halogen
<b>Tisoplen C 10D03 F01 R01</b> PPH, 10% glass fiber reinforced, flame retardant-halogen	<b>Tisoplen C 20D02 K02 R01</b> PPH, 20% calcium carbonate filled, heat&UV stabilized	<b>Tisoplen C 30D03 F01 R01</b> PPH, 30% glass fiber reinforced, flame retardant-halogen	<b>Tisoplen C 5D02 R01</b> PPH, 5% calcium carbonate filled
<b>Tisoplen C 10D05 R01</b> PPH, 10% glass bead reinforced	<b>Tisoplen C 30D03D06 R01</b> PPH, 30% glass fiber reinforced and mica filled, natural	<b>Tisoplen C 30D03D05 K02 R01</b> PPH, 30% glass fiber/glass bead reinforced, heat stabilized	<b>Tisoplen C D15 K14 R01</b> PPH, special filled, thermal conductive
<b>Tisoplen C 12,5D03 R01</b> PPH, 12,5% glass fiber reinforced	<b>Tisoplen C 50D03D14 K02 K07 R01</b> PPH, 50% glass fiber and graphite reinforced, heat stabilized, thermal conductive	<b>Tisoplen C 30D03D06 K03 R01</b> PPH, 30% glass fiber reinforced and mica reinforced, UV stabilized	<b>Tisoplen C 8D01 F01 R01</b> PPH, 8% talc filled, flame retardant-halogen
<b>Tisoplen C 20D05 K02 K09 R01</b> PPH, 20% glass bead reinforced, heat stabilized, detergent resistant	<b>Tisoplen C 20D03 F01 R01</b> PPH, 20% glass fiber reinforced, flame retardant-halogen	<b>Tisoplen C 30D05 R01</b> PPH, 30% glass bead reinforced	<b>Tisoplen C 8D01 F02 R01</b> PPH, 8% talc filled, flame retardant-halogen free
<b>Tisoplen C 15D01 F01 K01 K03 R01</b> PPH, 15% talc filled, flame retardant-halogen, UV stabilized, antistatic	<b>Tisoplen C 20D03D05 R01</b> PPH, 20% glass fiber and glass bead reinforced	<b>Tisoplen C 30D11 K07 R01</b> PPH, 30% carbon fiber reinforced, electrical conductive	<b>Tisoplen C UNR F01 K01 K03 R01</b> PPH, unreinforced, flame retardant-halogen, antistatic, UV stabilized
<b>Tisoplen C 15D01 K04 R01</b> PPH, 15% talc filled, impact modified	<b>Tisoplen C 20D10 K03 R01</b> PPH, 20% barium sulphate filled, UV stabilized	<b>Tisoplen C 40D01 F01 R01</b> PPH, 40% talc filled, flame retardant-halogen	<b>Tisoplen C UNR F01 K02 K03 R01</b> PPH, unreinforced, flame retardant-halogen, heat&UV stabilized
<b>Tisoplen C 15D02 R01</b> PPH, 15% calcium carbonate filled	<b>Tisoplen C 20D11 K07 R02</b> PPH, 20% carbon fiber reinforced, electrical conductive	<b>Tisoplen C 40D01 K02 K03 K09 R01</b> PPH, 40% talc filled, detergent resistant	<b>Tisoplen C UNR F02 K02 R01</b> PPH, unreinforced, low smoke density, flame retardant-halogen free,heat stabilized
<b>Tisoplen C 30D03D01 F01 R01</b> PPH, 30% glass fiber reinforced and talc filled, flame retardant-halogen	<b>Tisoplen C 22D01 K02 K03 K09 R01</b> PPH, 20% talc filled, heat stabilized, detergent resistant	<b>Tisoplen C 40D02 K01 R01</b> PPH, 40% calcium carbonate filled, antistatic	<b>Tisoplen C UNR K01 K03 R01</b> PPH, unreinforced, UV stabilized, antistatic
<b>Tisoplen C 15D03 K04 R01</b> PPH, 15% glass fiber reinforced, impact modified	<b>Tisoplen C 25D01 F02 R01</b> PPH, 25% glass fiber reinforced, flame retardant-halogen free	<b>Tisoplen C 40D03 K06 R01</b> PPH, 40% glass fiber reinforced, hydrolyzed	<b>Tisoplen C UNR K02 R01</b> PPH, unreinforced, heat stabilized
<b>Tisoplen C 15D10 R01</b> PPH, 15% barium sulphate filled	<b>Tisoplen C 25D02 R01</b> PPH, 25% calcium carbonate filled	<b>Tisoplen C 40D03D01 R01</b> PPH, 40% glass fiber reinforced and talc filled	<b>Tisoplen C UNR K03 K04 R01</b> PPH, unreinforced, Impact modifed, UV stabilized
<b>Tisoplen C 20D01 K02 R01</b> PPH, 20% talc filled, long term heat stabilized	<b>Tisoplen C 25D10 R01</b> PPH, 25% barium sulphate filled	<b>Tisoplen C 45D02 R01</b> PPH, 45% calcium carbonate filled	<b>Tisoplen C UNR K02 R01</b> PPH, unreinforced, heat stabilized, high crystallinity
<b>Tisoplen C 20D01 F01 R01</b> PPH, 20% talc filled, flame-retardant	<b>Tisoplen C 30D01 F01 R01</b> PPH, 30% talc filled, flame-retardant	<b>Tisoplen C 50D02 K04 R01</b> PPH, 50% calcium carbonate filled, impact modified	<b>Tisoplen C UNR F03 K02 R01</b> PPH, unreinforced, flame retardant-low halogen content, heat stabilized



# Plastics Engineer

## POLYPROPYLENE COPOLYMER

<b>Tisoplen D 5D01 R01</b> PPC, 5% talc filled	<b>Tisoplen D 20D01 K02 R01</b> PPC, 20% talc filled, heat stabilized	<b>Tisoplen D 30D03D06 K03 R01</b> PPC, 30% glass fiber reinforced and mica reinforced, UV stabilized	<b>Tisoplen D UNR K01 R01</b> PPC, unreinforced, antistatic
<b>Tisoplen D 5D02 R01</b> PPC, 5% calcium carbonate filled	<b>Tisoplen D 20D01 K13 R01</b> PPC, 20% talc filled, antiscratch	<b>Tisoplen D 30D11 K07 R02</b> PPC, 30% carbon fiber reinforced, electrical conductive	<b>Tisoplen D UNR K02 K03 K04 R01</b> PPC, unreinforced, impact modified, heat & UV stabilized
<b>Tisoplen D 5D01 F01 K01 R01</b> PPC, 5% talc filled, flame retardant-halogen, antistatic	<b>Tisoplen D 20D02 R01</b> PPC, 20% calcium carbonate filled	<b>Tisoplen D 35D03D01 K03 R01</b> PPC, 35% glass fiber reinforced and talc filled, UV stabilized	<b>Tisoplen E 5D03 R01</b> PPRC, 5% glass fiber reinforced
<b>Tisoplen D 10D01 F01 K02 K03 R01</b> PPC, 10% talc filled, flame retardant-halogen, UV stabilized, antistatic	<b>Tisoplen D 20D03 F01 K02 R01</b> PPC, 20% glass fiber reinforced, flame retardant-halogen, heat stabilized	<b>Tisoplen D 40D01 K02 K09 R01</b> PPC 40% talc filled, heat stabilized, detergent resistant	<b>Tisoplen E 10D03 R01</b> PPRC, 10% glass fiber reinforced
<b>Tisoplen D 10D01 K03 R01</b> PPC, 10% talc filled, UV stabilized	<b>Tisoplen D 20D03 F02 R01</b> PPC, 20% glass fiber reinforced, flame retardant-halogen free	<b>Tisoplen D 40D02 K04 R01</b> PPC, 40% calcium carbonate filled, impact modified	<b>Tisoplen E 20D03 R01</b> PPRC, 20% glass fiber reinforced
<b>Tisoplen D 10D01 K13 R01</b> PPC, 10% talc filled, antiscratch	<b>Tisoplen D 20D05 K02 K09 R01</b> PPC, 20% glass bead reinforced, heat stabilized, detergent resistant	<b>Tisoplen D 40D03 R01</b> PPC, 40% glass fiber reinforced	<b>Tisoplen E 25D03 R01</b> PPRC, 25% glass fiber reinforced
<b>Tisoplen D 10D02 R01</b> PPC, 10% calcium carbonate filled	<b>Tisoplen D 20D05 R01</b> PPC, 20% glass bead reinforced	<b>Tisoplen D 40D10 K03 R01</b> PPC, 40% barium sulphate filled, UV stabilized	<b>Tisoplen E 30D03 R01</b> PPRC, 30% glass fiber reinforced
<b>Tisoplen D 10D03 R01</b> PPC, 10% glass fiber reinforced	<b>Tisoplen D 20D11 K07 R02</b> PPC, 20% carbon fiber reinforced, electrical conductive	<b>Tisoplen D 45D02D10 R01</b> PPC, 45% barium sulphate and calcium carbonate filled	<b>Tisoplen E UNR R01</b> PPRC, unreinforced
<b>Tisoplen D 15D01 F01 K03 R01</b> PPC, 15% talc filled, flame retardant-halogen, UV stabilized, antistatic	<b>Tisoplen D 22D01 K03 R01</b> PPC, 22% talc filled, UV stabilized	<b>Tisoplen D 45D10 R01</b> PPC, 45% barium sulphate filled	<b>Tisoplen E 30D01 R01</b> PPBC, 20% talc filled
<b>Tisoplen D 15D01 F02 R01</b> PPC, 15% talc filled, flame retardant-halogen free	<b>Tisoplen D 25D02 R01</b> PPC, 25% calcium carbonate filled	<b>Tisoplen D 50D02 K04 R01</b> PPC, 50% calcium carbonate filled, impact modified	<b>Tisoplen E 30D03 R01</b> PPBC, 30% glass fiber reinforced
<b>Tisoplen D 15D01 K02 K03 R01</b> PPC, 15% talc filled, heat&UV stabilized	<b>Tisoplen D 25D01 K02 K03 R01</b> PPC, 25% talc filled, heat and UV stabilized	<b>Tisoplen D 50D03 R01</b> PPC, 50% glass fiber reinforced	<b>Tisoplen E 30D01 R01</b> PPBC, 30% talc filled
<b>Tisoplen D 15D02 R01</b> PPC, 15% calcium carbonate filled	<b>Tisoplen D 25D03 K03 R01</b> PPC, 25% glass fiber reinforced, UV stabilized	<b>Tisoplen D 50D03D14 K02 K07 R01</b> PPC, 50% glass fiber and graphite reinforced, heat stabilized, thermal conductive	<b>Tisoplen E 50D10 R01</b> PPBC, 50% barium sulphate filled
<b>Tisoplen D 15D03 K01 K03 R01</b> PPC, 15% glass fiber reinforced, UV stabilized, antistatic	<b>Tisoplen D 30D01 F01 R01</b> PPC, 30% talc filled, flame retardant-halogen	<b>Tisoplen D D15 K14 R01</b> PPC, special filled, thermal conductive	<b>Tisoplen E 50D01 R01</b> PPBC, 50% talc filled
<b>Tisoplen D 15D03 R01</b> PPC, 15% glass fiber reinforced	<b>Tisoplen D 30D01 K9 R01</b> PPC, 30% talc filled, detergent resistant	<b>Tisoplen D UNR F01 K01 K03 R01</b> PPC, unreinforced, flame retardant-halogen, UV stabilized, antistatic v	<b>Tisoplen E UNR R01</b> PPBC, unreinforced
<b>Tisoplen D 20D01 F01 K02 R01</b> PPC, 20% talc filled, flame retardant-halogen, heat stabilized	<b>Tisoplen D 30D02 K02 R01</b> PPC, 30% calcium carbonate filled, heat stabilized	<b>Tisoplen D UNR F01 R01</b> PPC, unreinforced, flame retardant-halogen	<b>Tisoplen E UNR K03 R01</b> PPBC, unreinforced, UV stabilized
<b>Tisoplen D 20D01 F02 R01</b> PPC, 20% talc filled, flame retardant-halogen free	<b>Tisoplen D 30D03 K03 R01</b> PPC, 30% glass fiber reinforced, UV stabilized	<b>Tisoplen D UNR F02 R01</b> PPC, unreinforced, flame retardant-halogen free	
<b>Tisoplen D 5D01 R01</b> PPC, 20% talc filled, heat&UV stabilized	<b>Tisoplen D 30D03D01 R01</b> PPC, 30% glass fiber reinforced and talc filled	<b>Tisoplen D UNR F03 K02 R01</b> PPC, unreinforced, flame retardant-low halogen content, heat stabilized	

# Tisan

[www.tisan.com.tr](http://www.tisan.com.tr)

## Tisan Factory 1

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