

TECHNYL[®] ONE

Enhanced electrical properties



For demanding electrical applications, combines unparalleled electrical performance with high thermal resistance, reduces tool corrosion, and simplifies processing – all in ONE.



flame, electrical & thermal resistance

MAIN BENEFITS

Halogen-free flame retardant and heat stabilized grades



Performance

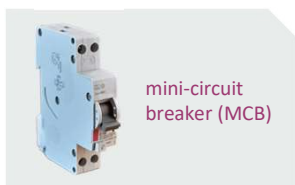
- Class-leading **fire protection and electrical performance**
- **Low moisture absorption** and **high dimensional stability**
- **Unmatched thermal aging properties**
- **High mechanical and tensile strength**
- **Chemical resistant**
- **Fully colorable**



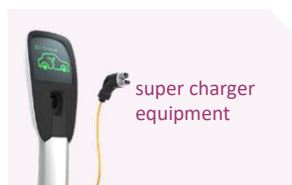
Processing

- Very **high fluidity** challenging the limits of miniaturization
- **Reduced production cost**
- **Reduced corrosion** of tools and injection molding machines

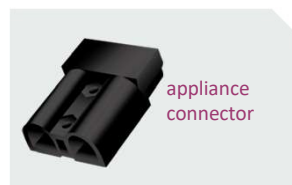
KEY APPLICATIONS



mini-circuit breaker (MCB)



super charger equipment



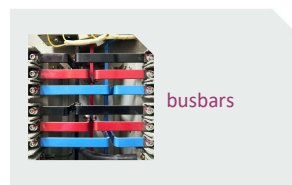
appliance connector



contactor



connector for EVs



busbars

MARKETS



AUTOMOTIVE



ELECTRICAL & ELECTRONICS



ENERGY MANAGEMENT

INDUSTRY-LEADING CERTIFICATIONS



UL94 V0 rating at a wall thickness of only 0.4 mm

A fully compliant yellow card including RTI



Certified under EN 45545 Railway standard



+ Compliance with EU environmental waste management directives and WEEE2 2002/96/CE

TECHNYL® ONE

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PROOF POINTS

TECHNYL® ONE J 60X1 V30

- Full UL yellow card available with RTI ratings up to 0.4mm wall thickness
- Higher fire rating class vs. PA66 & PA6 grades: UL 94 at 0.4mm, GWFI 960°C at 0.4mm, UL 5VA at 0.75mm, GWIT 800°C at 0.4mm vs. STD PA66 & PA6 grades
- Superior electrical performance vs. PA66 & PA6 grades : CTI ≥ 600V, RTI Electrical 150°C at 0.4 mm, IPTI (1kV)
- Suitable for railways applications : R22 (HL3) & R23 (HL3) for EN 45545-2
- High melt temperature of 285°C, high glass transition of 80°C and a high crystallization temperature of 250°C, which sets it apart from standard PA66, not to mention PPA

UL Yellow card extract for
TECHNYL® ONE J 60X1 V30 all colors

| COLOR | Min Thk (mm) | Flame Class | HWI | HAI | RTI Elec | RTI Imp | RTI Str |
|-------|--------------|-------------|-----|-----|----------|---------|---------|
| ALL | 0.4 | V-0 | 1 | 0 | 150 | 120 | 140 |
| | 0.8 | V-0 | 0 | 0 | 150 | 120 | 140 |
| | 1.0 | V-0 | 0 | 0 | 150 | 120 | 140 |
| | 1.6 | V-0 | 0 | 0 | 150 | 130 | 150 |
| | 3 | V-0 | 0 | 0 | 150 | 130 | 150 |

Grades

With its high temperature matrix and halogen-free flame-retardant formulation, leading to excellent electrical properties and fire performance,

TECHNYL® ONE has clearly demonstrated its suitability for demanding applications within the electrical protection and e-mobility segments.

KEY PRODUCTS

TECHNYL® ONE J 60X1 V15

TECHNYL® ONE J 60X1 V30

available colors & laser marking performance

NATURAL

TECHNYL® ONE J 60X1 V15 NC
TECHNYL® ONE J 60X1 V30 NC

BLACK

TECHNYL® ONE J 60X1 V15 BK
TECHNYL® ONE J 60X1 V30 BK

RAL 7016

TECHNYL® ONE J 60X1 V30 GY2683 LP

RAL 7035

TECHNYL® ONE J 60X1 V30 GY2682 LP
TECHNYL® ONE J 60X1 V30 GY2689
TECHNYL® ONE J 60X1 V30 GY7035 LPU

RAL 2003

TECHNYL® ONE J 60X1 V30 ORANGE2701

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DOMO



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**caring
is our formula**