



Topolymer[®] RCC 5711-951B

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer[®] RCC 5711-951B is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. This grade contains 30% PCR material. This material can be widely used in power plug, electronic & electrical, automotive, etc. This grade is designed for injection molding. It is completely recyclable.

General

| | | | |
|------------|-------------------|-------------------|----------------------|
| Appearance | ✓ Black Color | | |
| Feature | ✓ Soft Touch | ✓ Tear Resistance | ✓ UL Yellow Card |
| | ✓ Bend Resistance | ✓ Heat Resistance | ✓ Weather Resistance |
| Compliance | ✓ RoHS | ✓ REACH | |
| Form | ✓ Pellet | | |
| Packaging | ✓ 25kg/bag | | |

Technical Property

| Typical Properties | Typical Value | Unit | Test Method |
|---------------------------|---------------|-------------------|-------------|
| Hardness | 94 | Shore A | ASTM D-2240 |
| Density | 1.07 | g/cm ³ | ASTM D-792 |
| Tensile Strength at break | 11.9 | MPa | ASTM D-412 |
| Tensile Strength at 100% | 6.5 | MPa | ASTM D-412 |
| Elongation at Break | 360 | % | ASTM D-412 |
| Tearing Strength | 11.9 | KN/m | ASTM D624 |
| Rating Temperature | 80 | °C | UL1581 |
| Flame Retardant | Pass | VO | UL94 |

The data are not to be defined as specifications

Processing Information

| Injection | Typical Value |
|-------------------------|---------------|
| Rear Temperature | 160-180°C |
| Middle Temperature | 180-210°C |
| Front Temperature | 180-210°C |
| Nozzle Temperature | 160-90°C |
| Mold Temperature | 40-60°C |
| Injection Rate | Fast |
| Back Pressure | 0.35-0.7MPa |
| Screw Speed | 100-200rpm |
| Clamp Tonnage | 40-70MPa |
| Screw L/D Ratio | 16:1-24:1 |
| Screw Compression Ratio | 2:1-4:1 |

Notes:

- 1) The product is incompatible with PVC, Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) Polyethylene (PE) or Polypropylene (PP).
- 2) The product needs to be dried for 2-3 hours at 90°C before use
- 3) In good ventilation, the product can be stored for six months from the date of production. Property check is required if storage time is over 6 months

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