

Covestro Bayblend® FR3200 TV PC/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Main characteristics:• High toughness even at low temperatures• High dimensional accuracy and stability• Good paintability• Good flowability
Grade characteristics:• Flame-retardant• Injection molding• High gloss
As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR3200-TV-PCABS-Blend.php

| Physical Properties | Metric | English | Comments |
|---------------------|------------|----------------------------|------------|
| Density | 1.195 g/cc | 0.04317 lb/in ³ | ISO 1183-1 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------------------------------|----------------------------------------------------|------------------------------|
| Tensile Strength at Break | 46.0 MPa | 6670 psi | 50 mm/min; ISO 527-1,-2 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | 50 mm/min; ISO 527-1,-2 |
| Elongation at Break | >= 50 % | >= 50 % | 50 mm/min; b.o. ISO 527-1,-2 |
| Elongation at Yield | 3.7 % | 3.7 % | 50 mm/min; ISO 527-1,-2 |
| Tensile Modulus | 2.60 GPa | 377 ksi | 1 mm/min; ISO 527-1,-2 |
| Izod Impact, Notched (ISO) | 25.0 kJ/m ² @Temperature 23.0 °C | 11.9 ft-lb/in ² @Temperature 73.4 °F | ISO 180-A |
| Izod Impact, Unnotched (ISO) | NB @Temperature 23.0 °C | NB @Temperature 73.4 °F | ISO 180-U |

| Thermal Properties | Metric | English | Comments |
|---------------------------------------------|---------------------------|-----------------------------|------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C | 176 °F | ISO 75-1,-2 |
| Vicat Softening Point | 96.0 °C @Load 5.10 kg | 205 °F @Load 11.2 lb | 120°C/h; ISO 306 |
| Flammability, UL94 | V-0 @Thickness 1.20 mm | V-0 @Thickness 0.0472 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|----------------------------|
| Melt Temperature | 240 °C | 464 °F | Injection molding; ISO 294 |
| Mold Temperature | 80.0 °C | 176 °F | Injection molding; ISO 294 |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------|-------------|----------|
| Injection Velocity | 240 mm/sec | 9.45 in/sec | RO 234 |

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