

Covestro Bayblend® FR410 MT Rubber Modified PC Blend, 10% Mineral Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

Material Notes:

Main characteristics:• High toughness even at low temperatures• High dimensional accuracy and stability• Good paintability• Good flowability
Grade characteristics:• Rubber modified PC blend; 10 % mineral filled• Flame-retardant• Injection molding
As of 1 September 2015, Bayer MaterialScience 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-FR410-MT-Rubber-Modified-PC-Blend-10-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183-1
Moisture Absorption at Equilibrium	0.20 %	0.20 %	ISO 62, 50% RH
Water Absorption at Saturation	0.50 %	0.50 %	ISO 62
Viscosity	360000 cP @Shear Rate 1000 1/s, Temperature 260 °C	360000 cP @Shear Rate 1000 1/s, Temperature 500 °F	melt viscosity; b.o. ISO 11443-A
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.00 mm	0.0040 - 0.0050 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm @Thickness 3.00 mm	0.0040 - 0.0050 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	19 %	19 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	3.95 GPa	573 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180-A
	9.00 kJ/m ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 180-A

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 55.0 °C	26.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 131 °F	ISO 11359-1,-2
CTE, linear, Transverse to Flow	59.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 23.0 - 55.0 °C	32.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 73.4 - 131 °F	ISO 11359-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	ISO 75-1,-2
Vicat Softening Point	106 °C @Load 5.10 kg	223 °F @Load 11.2 lb	50 $\text{°C}/\text{h}$; ISO 306
	108 °C @Load 5.10 kg	226 °F @Load 11.2 lb	120 $\text{°C}/\text{h}$; ISO 306
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	UL 94-5V
	5VA @Thickness 3.00 mm	5VA @Thickness 0.118 in	UL 94-5V

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

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