

## Covestro Bayblend® FR3005 BBS310 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 • Improved chemical resistance  
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-FR3005-BBS310-PCABS-Blend.php](http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR3005-BBS310-PCABS-Blend.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	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
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.00 mm	0.0050 - 0.0070 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 3.00 mm	0.0050 - 0.0070 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 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	29 %	29 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	3.6 %	3.6 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.65 GPa	384 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	6.66 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180-A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C @Temperature 23.0 - 55.0 °C	42.2 µin/in-°F @Temperature 73.4 - 131 °F	ISO 11359-1,-2

Thermal Properties	80.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	44.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
CTE, linear, Transverse to Flow	@Temperature 23.0 - 55.0 $^\circ\text{C}$	@Temperature 73.4 - 131 $^\circ\text{F}$	ISO 11359-1, -2
Deflection Temperature at 0.46 MPa (66 psi)	85.0 $^\circ\text{C}$	185 $^\circ\text{F}$	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	76.0 $^\circ\text{C}$	169 $^\circ\text{F}$	ISO 75-1,-2
Vicat Softening Point	92.0 $^\circ\text{C}$ @Load 5.10 kg	198 $^\circ\text{F}$ @Load 11.2 lb	120 $^\circ\text{C}/\text{h}$ ; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VB @Thickness 1.50 mm	5VB @Thickness 0.0591 in	UL 94-5V

Processing Properties	Metric	English	Comments
Melt Temperature	240 $^\circ\text{C}$	464 $^\circ\text{F}$	Injection molding; ISO 294
Mold Temperature	80.0 $^\circ\text{C}$	176 $^\circ\text{F}$	Injection molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

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