

## Covestro Baydur® 110 FR Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid

### Material Notes:

Rigid microcellular RIM polyurethane material. Fast demold times; self releasing; long flow paths possible, therefore suitable for production of large moldings. Parts are injected through only one gate. Information provided by Bayer. 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-Baydur-110-FR-Polyurethane.php](http://www.lookpolymers.com/polymer_Covestro-Baydur-110-FR-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	
Water Absorption	2.0 %	2.0 %	Saturation in water
Water Absorption at Saturation	2.0 %	2.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 MPa	7250 psi	
Elongation at Break	12 %	12 %	
Tensile Modulus	2.00 GPa	290 ksi	
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 μm/m-°C	50.0 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	90.0 μm/m-°C	50.0 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	135 °C	275 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	$\geq 1.00\text{e}+15$ ohm-cm Metric	$\geq 1.00\text{e}+15$ ohm-cm English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Strength	15.0 kV/mm	381 kV/in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China