

## Covestro Makrolon® 1954 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded , Polycarbonate, UV Stabilized

### Material Notes:

Main characteristics:• High toughness• Good heat resistance• Glass-like transparency, optical quality• High dimensional accuracy and stability  
Grade characteristics:• Low viscosity• UV stabilized• Improved friction characteristics  
Formerly Makrolon DP1-1954As 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-Makrolon-1954-Polycarbonate.php](http://www.lookpolymers.com/polymer_Covestro-Makrolon-1954-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.215 g/cc	0.04389 lb/in <sup>3</sup>	ISO 1183-1
Melt Flow	19 g/10 min @Load 1.20 kg, Temperature 300 °C	19 g/10 min @Load 2.65 lb, Temperature 572 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 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	100 %	100 %	50 mm/min; b.o. ISO 527-1,-2
Elongation at Yield	5.6 %	5.6 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	94.0 MPa	13600 psi	2 mm/min; ISO 178
Flexural Yield Strength	73.0 MPa @Strain 3.50 %	10600 psi @Strain 3.50 %	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup> @Thickness 3.00 mm, Temperature 23.0 °C	5.71 ft-lb/in <sup>2</sup> @Thickness 0.118 in, Temperature 73.4 °F	complete break; b.o. ISO 180-A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU
	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179-1eU
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	complete break; ISO 7391/b.o. ISO

Mechanical Properties	Metric @Thickness 3.00 mm, Temperature 23.0 °C	English @Thickness 0.118 in, Temperature 73.4 °F	179-1eA Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	ISO 75-1,-2
Vicat Softening Point	143 °C @Load 5.10 kg	289 °F @Load 11.2 lb	50°C/h; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	280 °C	536 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

## Contact Songhan Plastic Technology Co.,Ltd.

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