

## Covestro Makroblend® KU 2-7912/5 Polycarbonate + PBT, Impact Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

Developmental product ISO 7792-1-PBT/PC, MHPR, -020(PC+PBT)-blend impact modified Injection molding grade high flow high toughness at low temperatures unreinforced Preprocessing Max. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Makroblend-KU-2-79125-Polycarbonate-PBT-Impact-Grade.php](http://www.lookpolymers.com/polymer_Covestro-Makroblend-KU-2-79125-Polycarbonate-PBT-Impact-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
	1.03 g/cc	0.0372 lb/in <sup>3</sup>	Melt
	@Temperature 260 °C	@Temperature 500 °F	
Water Absorption	0.50 %	0.50 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	7.2 g/10 min	7.2 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 250 °C	@Load 4.76 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	Nominal; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	6.00 J/cm <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 179/1eA
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2

CTE, linear, Transverse to Flow Thermal Properties	90.0 µm/m-°C Metric	50.0 µin/in-°F English	ISO 11359-1/-2 Comments
Specific Heat Capacity	1.78 J/g-°C	0.425 BTU/lb-°F	Melt
Thermal Conductivity	0.167 W/m-K	1.16 BTU-in/hr-ft <sup>2</sup> -°F	Melt
Melting Point	224 °C	435 °F	ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ISO 75-1/-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10
Oxygen Index	21 %	21 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.1 @Frequency 1.00e+6 Hz	3.1 @Frequency 1.00e+6 Hz	IEC 60250
	3.2 @Frequency 100 Hz	3.2 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0014 @Frequency 100 Hz	0.0014 @Frequency 100 Hz	IEC 60250
	0.0125 @Frequency 1.00e+6 Hz	0.0125 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 270 °C	482 - 518 °F	
	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	70.0 °C	158 °F	Injection Molding; ISO 10724

Processing Properties	Metric	English	Comments
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	India	
	Near East/Africa	
	North America	
	South and Central America	
Eff. thermal diffusivity (m <sup>2</sup> /s)	9.15E-08	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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