Makrolon® CF9920 R30 RE

Covestro - Polycarbonates - *Polycarbonate*

General Information

Product Description			
PC blend filled with carbon fiber; polycarbonate; flame retardant; With 30% Post Consumer Recycled Partially bio-circular grade / Attributed via mass balance (according to ISCC PLUS Standard).			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber		
Recycled Content	• Post-Consumer (PCR), 30%		
Features	• Flame Retardant	• Recyclable Material	
Agency Ratings	• ISCC PLUS		
RoHS Compliance	• RoHS Compliant		
ISO Designation	• PC		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density (73°F)	1.31	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	16	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	14	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	2.76E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	23500	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.4	%	ISO 527-2/5
Flexural Modulus [2] (73°F)	2.39E+6	psi	ISO 178
Flexural Stress [2] (73°F)	33400	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in²	ISO 180/A
Unnotched Izod Impact Strength (73°F)	13	ft·lb/in²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	198	°F	ISO 75-2/B
Vicat Softening Temperature	216	°F	ISO 306/B120
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.030 in)	V-0		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature - Dry Air Dryer	176	°F
Drying Time - Dry Air Dryer	4.0	hr
Processing (Melt) Temp	518 to 590	°F
Mold Temperature	140 to 176	°F

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min