



Cycoloy* Resin MC5220

Europe-Africa-Middle East: COMMERCIAL

CYCOLOY MC5220 is a 20% glass reinforced PC+ABS blend for injection moulding purposes.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yield, 5 mm/min	107	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	113	MPa	ISO 178
Flexural Modulus, 2 mm/min	5880	MPa	ISO 178
IMPACT			
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
CTE, 23°C to 60°C, flow	3.E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.E-05	1/°C	ISO 11359-2
PHYSICAL			
Mold Shrinkage on Tensile Bar, flow (2)	0.2 - 0.4	%	GE Method
Density	1.33	g/cm³	ISO 1183
Melt Volume Rate, MVR at 260°C/5.0 kg	27	cm³/10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	1.E+16	Ohm-cm	IEC 60093
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	1.5	mm	UL 94
UL Recognized, 94-5VA Rating (3)	2.5	mm	UL 94

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity.
All properties, except the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.





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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	100 - 110	°C
Drying Time	2 - 4	hrs
Melt Temperature	240 - 280	°C
Mold Temperature	50 - 80	°C

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