Cycoloy* Resin MC8100



Americas: COMMERCIAL

Extrusion blowmolding grade.

Property

Value	Unit	Standard
52	MPa	ASTM D 638
5	%	ASTM D 638
100	%	ASTM D 638
2060	MPa	ASTM D 638
77	MPa	ASTM D 790
2060	MPa	ASTM D 790
Value	Unit	Standard
534	J/m	ASTM D 256
427	J/m	ASTM D 256
54	J	ASTM D 3763
47	J	ASTM D 3763
Value	Unit	Standard
123	°C	ASTM D 648
104	°C	ASTM D 648
8.1E-05	1/°C	ASTM E 831
0.2	W/m-°C	ASTM C 177
Value	Unit	Standard
1.13	-	ASTM D 792
0.1	%	ASTM D 570
0.4	%	ASTM D 570
0.4 - 0.7	%	SABIC Method
	52 5 100 2060 77 2060 77 2060 77 2060 77 2060 77 2060 Value 534 427 54 47 Value 123 104 8.1E-05 0.2 Value 1.13 0.1 0.4	52 MPa 5 % 100 % 2060 MPa 77 MPa 2060 MPa 77 MPa 2060 MPa 123 J/m 123 °C 104 °C 8.1E-05 1/°C 0.2 W/m-°C 0.2 W/m-°C 1.13 - 0.1 % 0.4 %

Processing

Parameter		
Extrusion Blow Molding	Value	Unit
Drying Temperature	100 - 110	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.04 - 0.05	%
Minimum Moisture Content	0.04	%
Melt Temperature (Parison)	245 - 260	°C
Barrel - Zone 1 Temperature	240 - 250	°C
Barrel - Zone 2 Temperature	240 - 255	°C
Barrel - Zone 3 Temperature	240 - 255	°C
Barrel - Zone 4 Temperature	240 - 255	°C
Adapter - Zone 5 Temperature	245 - 260	°C
Head - Zone 6 - Top Temperature	245 - 260	°C
Head - Zone 7 - Bottom Temperature	245 - 260	°C

Source GMD, last updated:01/05/2000

Screw Speed	20 - 50	rpm	
Extruder Feed Zone Temperature	60 - 80	°C	
Mold Temperature	40 - 90	°C	
Die Temperature	250 - 265	°C	
	Source GMD, last updated:01/05/2000		

• For extended downtime, lower barrel, head and die temperatures to 120°C (250°F).

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. 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) Internal measurements according to UL standards.

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