

# Ultem\* Resin 2110R

## **Americas: COMMERCIAL**

10% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C) with internal mold release. ECO Conforming, UL94 V0 and 5VA listing.

### Property

Value 114 115 6 4610 199 5240 Value 53 400 Value 207	Unit MPa MPa % MPa MPa MPa Unit J/m J/m	Standard           ASTM D 638           ASTM D 638           ASTM D 638           ASTM D 638           ASTM D 790           ASTM D 790           Standard           ASTM D 256           ASTM D 256
115 6 4610 199 5240 <b>Value</b> 53 400 <b>Value</b>	MPa % MPa MPa MPa J/m J/m	ASTM D 638 ASTM D 638 ASTM D 638 ASTM D 790 ASTM D 790 <b>Standard</b> ASTM D 256 ASTM D 256
6 4610 199 5240 <b>Value</b> 53 400 <b>Value</b>	% MPa MPa MPa <b>Unit</b> J/m J/m	ASTM D 638 ASTM D 638 ASTM D 790 ASTM D 790 <b>Standard</b> ASTM D 256 ASTM D 256
4610 199 5240 <b>Value</b> 53 400 <b>Value</b>	MPa MPa MPa <b>Unit</b> J/m J/m	ASTM D 638 ASTM D 790 ASTM D 790 <b>Standard</b> ASTM D 256 ASTM D 256
199 5240 <b>Value</b> 53 400 <b>Value</b>	MPa MPa <b>Unit</b> J/m J/m	ASTM D 790 ASTM D 790 Standard ASTM D 256 ASTM D 256
5240 Value 53 400 Value	MPa Unit J/m J/m	ASTM D 790 Standard ASTM D 256 ASTM D 256
Value           53           400           Value	Unit J/m J/m	Standard ASTM D 256 ASTM D 256
53 400 <b>Value</b>	J/m J/m	ASTM D 256 ASTM D 256
400 Value	J/m	ASTM D 256
Value		
	Unit	
207		Standard
201	°C	ASTM D 648
170	°C	UL 746B
170	°C	UL 746B
170	°C	UL 746B
Value	Unit	Standard
1.34	-	ASTM D 792
11.5	g/10 min	ASTM D 1238
Value	Unit	Standard
6	PLC Code	ASTM D 495
1	PLC Code	UL 746A
2	PLC Code	UL 746A
4	PLC Code	UL 746A
4	PLC Code	UL 746A
Value	Unit	Standard
0.4	mm	UL 94
		UL 94
	1.34 11.5 <b>Value</b> 6 1 2 4 4 4 <b>Value</b> 0.4	1.34-11.5g/10 minValueUnit6PLC Code1PLC Code2PLC Code4PLC Code4PLC CodeValueUnit

#### Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	150	°C
Drying Time	4 - 6	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	350 - 400	°C
Nozzle Temperature	345 - 400	°C
Front - Zone 3 Temperature	345 - 400	°C
Middle - Zone 2 Temperature	340 - 400	°C

Rear - Zone 1 Temperature	330 - 400	°C
Mold Temperature	135 - 165	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm

Source GMD, last updated:01/12/2000

#### 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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