

**General Information**
**Product Description**

## Description

Halogen Free Flame Retardant, EPEAT  
PCR material 30%

## Application

IT&OA (All in One PC & Notebook PC housing)

**General**

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Halogen Free	
Uses	• Computer Components	• Electrical Housing	• Electrical/Electronic Applications
Processing Method	• Injection Molding		

**ASTM & ISO Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.20 mm, Injection Molded)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 23°C, 3.20 mm, Injection Molded	58.8	MPa	
Flexural Modulus <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	2550	MPa	ASTM D790
Flexural Strength <sup>3</sup> (23°C, 3.20 mm, Injection Molded)	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm, Injection Molded)	390	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm, Injection Molded	97.0	°C	
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.2 mm	V-0		
1.5 mm	V-0		
3.0 mm	V-0		

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	75 to 85	°C

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# Lupoy® ER5001RF

## LG Chem Ltd. - Polycarbonate + ABS

Injection	Nominal Value	Unit
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	225 to 240	°C
Middle Temperature	240 to 255	°C
Front Temperature	250 to 265	°C
Nozzle Temperature	250 to 265	°C
Processing (Melt) Temp	235 to 265	°C
Mold Temperature	50 to 80	°C
Screw Speed	40 to 70	rpm

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50 mm/min

<sup>3</sup> 10 mm/min