

Lucet® MR-320

Acetal (POM) Copolymer

LG Chem Ltd.

Message:

Lucet® MR-320 is an Acetal (POM) Copolymer material filled with 20% mineral. It is available in North America for injection molding.

Important attributes of Lucet® MR-320 are:

Flame Rated

Chemical Resistant

Copolymer

Creep Resistant

Good Dimensional Stability

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	Copolymer		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Moldability		
	Good Thermal Stability		
	Low Warpage		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.7	%	ASTM D955
Water Absorption (24 hr)	0.21	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	58.8	MPa	ASTM D638
Tensile Elongation (Break)	7.0	%	ASTM D638
Flexural Modulus	4410	MPa	ASTM D790
Flexural Strength (Yield)	98.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	29	J/m	
23°C	34	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	163	°C	
1.8 MPa, Unannealed	150	°C	
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	ASTM D257
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	3.0 to 6.0	hr	
Rear Temperature	170 to 190	°C	
Middle Temperature	190 to 210	°C	
Front Temperature	200 to 225	°C	
Nozzle Temperature	200 to 225	°C	
Processing (Melt) Temp	210 to 220	°C	
Mold Temperature	60.0 to 80.0	°C	
Injection Pressure	68.6 to 118	MPa	
Back Pressure	0.00 to 3.92	MPa	
Screw Speed	40 to 75	rpm	

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