

Lucon® MA6120TR

Thermoplastic Elastomer

LG Chem Ltd.

Message:

Applications:

Wafer Carrier Box, Pellicle Tray

Description:

Antistatic

Transparent & Low Outgassing, Improved Impact Strength

General Information			
Filler / Reinforcement	Carbon Nano		
Additive	Antistatic		
Features	Antistatic		
Uses	Support Trays		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10 to 1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm)	51.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.20 mm)	15	%	ASTM D638
Flexural Modulus ³ (3.20 mm)	1960	MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	78.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C, 81.3 mm)	54	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	80.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Optical	Nominal Value	Unit	Test Method
Transmittance	85.0	%	ASTM D1003
Haze	18	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	200 to 220	°C	
Middle Temperature	210 to 240	°C	
Front Temperature	210 to 240	°C	
Nozzle Temperature	210 to 240	°C	

Processing (Melt) Temp	220 to 250	°C
Mold Temperature	50.0 to 80.0	°C
Back Pressure	0.00 to 3.92	MPa
Screw Speed	40 to 70	rpm

NOTE		
1.	50 mm/min	
2.	50 mm/min	
3.	10 mm/min	
4.	10 mm/min	

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