

ECO PELLET® LC52A

Polylactic Acid + PC

UMG ABS, Ltd.

Message:

ECO PELLET® LC52A is a Polylactic Acid + PC (PLA+PC) material. It is available in Asia Pacific or North America for injection molding.

Important attributes of ECO PELLET® LC52A are:

Flame Rated

RoHS Compliant

Eco-Friendly/Green

General Information			
Features	Renewable Resource Content		
RoHS Compliance	RoHS Compliant		
UL File Number	E47016		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.22	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	29.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (23°C)	0.50 to 0.80	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	58.0	MPa	ISO 527-2
Flexural Modulus ¹ (23°C)	3000	MPa	ISO 178
Flexural Stress ² (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	92.0	°C	ISO 75-2/Af
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0 to 5.0	hr	
Rear Temperature	210 to 240	°C	
Middle Temperature	220 to 250	°C	
Front Temperature	230 to 260	°C	
Nozzle Temperature	220 to 250	°C	
Processing (Melt) Temp	240 to 270	°C	

Mold Temperature	60.0 to 80.0	°C
Injection Pressure	70.0 to 140	MPa
Injection Rate	Moderate	
Back Pressure	5.00 to 15.0	MPa
Screw Speed	50 to 80	rpm

NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	

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Recommended distributors for this material

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