

LGG 1045

General Purpose Polystyrene

LG Polymers India Pvt. Ltd.

Message:

LGG 1045 is a High Heat resistant GPPS grade with medium flow with Diamond Clear tinge.

Applications:

Refrigerator components, Crisper tray, chiller tray, Crystal ware, water purifier parts etc.

General Information			
Features	Medium liquidity		
	Heat resistance, high		
Uses	Home appliance components		
Appearance	Clear/transparent		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	44.1	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3530	MPa	ASTM D790
Flexural Strength	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	12	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ASTM D1525
Heat Deflection Temperature - Unannealed	85	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	95.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	45 - 60	°C	

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