

# LGS 5Z 500

High Impact Polystyrene

LG Polymers India Pvt. Ltd.

Message:

LGS - 5Z500 is a UL Approved Flame-retardant HIPS grade in Natural color.

Applications:

Electrical boards, Refrigerator electrical control box etc.

General Information			
Features	Impact resistance, high		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
Appearance	Natural color		
Forms	Particles		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	21.6	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Strength	29.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Heat Deflection Temperature	80	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating	V-0	UL 94	
Injection	Nominal Value	Unit	
Processing (Melt) Temp	180 - 210	°C	
Mold Temperature	40 - 50	°C	

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