

# Lupolen 5121 A

High Density (HMW) Polyethylene

LyondellBasell Industries

## Message:

Lupolen 5121 A is a high molecular weight high density polyethylene (HDPE) resin used in blow molding applications. Typical customer applications include packagings for dangerous goods and consumer goods. It exhibits high rigidity and ESCR as well as good flowability and organoleptic properties. Lupolen 5121 A is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution. Lupolen 5121 A is not intended for use in medical and pharmaceutical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Chemical Resistance		
	Good Flow		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	High Rigidity		
Uses	Med.-Wide Molecular Weight Distrib.		
	Jerricans		
Forms	Packaging		
	Pellets		
Processing Method	Blow Molding		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm <sup>3</sup>	ISO 1183
Apparent Density	> 0.50	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.0	g/10 min	ISO 1133
FNCT <sup>1</sup> (80°C)	16.0	hr	ISO 16700
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1050	MPa	ISO 527-2
Tensile Stress (Yield)	25.0	MPa	ISO 527-2
Tensile Strain (Yield)	7.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-30°C)	150	kJ/m <sup>2</sup>	ISO 8256/1A
Thermal	Nominal Value	Unit	Test Method

Melting Temperature (DSC)	131	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	
NOTE			
1.	3.5 MPa, 2% Igepal BC/9		

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