

InnoPlus LL8420A

Linear Low Density Polyethylene
PTT Global Chemical Public Company Limited

Message:

InnoPlus LL8420A resin is a linear low density polyethylene which is designed for injection molding application. This grade has very narrow molecular weight distribution, offers excellent impact strength, rigidity, environmental stress cracking resistance and processability. InnoPlus LL8420A is recommended for producing general purpose injection molding applications; lids, housewares, trash bins, masterbatch carrier.

General Information			
Features	General Purpose		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
	Narrow Molecular Weight Distribution		
Uses	General Purpose		
	Household Goods		
	Lids		
	Masterbatch		
	Waste Containers		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.924	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	150	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant (Compression Molded)	310	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, Compression Molded	12.0	MPa	
Break, Compression Molded	8.00	MPa	
Tensile Elongation			ASTM D638
Yield, Compression Molded	20	%	

Break, Compression Molded	300	%	
Flexural Modulus (Compression Molded)	410	MPa	ASTM D790
Flexural Strength	18.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ASTM D1525
Peak Melting Temperature	123	°C	ASTM D3418
Injection	Nominal Value	Unit	
Nozzle Temperature	180 to 200	°C	
Processing (Melt) Temp	170 to 190	°C	

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