

Alkatuff® LL820

Linear Low Density Polyethylene

Qenos Pty Ltd

Message:

LL820 is a hexene copolymer linear low density polyethylene, designed for general purpose injection molding.

Application:

LL820 is intended for general purpose injection molding, such as housware and lids.

Specifications:

If this product is used for food contact applications, then the user needs to ensure compliance with the requirements of AS2070-1999 and relevant FDA regulations.

When used in accordance with FDA application guidelines, this product meets the requirements of FDA 21 CFR 177.1520 (c) 3.1a and AS2070-1999 section 4.1.1(a). This product should not be used in applications for holding food during cooking without the required compliance testing.

General Information			
Features	Copolymer		
Uses	General Purpose		
	Household Goods		
	Lids		
Agency Ratings	AS 2070-1999 section 4.1.1(a)		
	FDA 21 CFR 177.1520(c) 3.1a		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Antarox CO-630, F50)	700	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	46		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	13.0	MPa	
Break	10.0	MPa	
Tensile Elongation ² (Break)	500	%	ASTM D638
Flexural Modulus	460	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Puncture Energy ³	9.60	J	Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C)	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	60.0	°C	
1.8 MPa, Unannealed	39.0	°C	
Vicat Softening Temperature	99.0	°C	ASTM D1525
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	23°C		

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