

# Alkathene® WJG117

Linear Low Density Polyethylene

Qenos Pty Ltd

## Message:

WJG117 is a low flow low density polyethylene which offers a high level of toughness.  
WJG117 is suited to thick section mouldings, caps and closures requiring a high level of toughness. WJG117 is not recommended for high stress crack resistant applications. Suitability for use in any application should be determined by appropriate performance testing.

General Information			
Features	Food Contact Acceptable		
	Low Flow		
	Ultra High Toughness		
Uses	Caps		
	Closures		
Agency Ratings	AS 2070-1999 4.1.1(a)		
	FDA 21 CFR 177.1520(c) 2.1		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	49		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield, 1.90 mm	10.4	MPa	
Break, 1.90 mm	13.2	MPa	
Tensile Elongation <sup>2</sup> (Break, 1.90 mm)	620	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup>	200	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	108	°C	ASTM D3418
NOTE			
1.	Type IV, 500 mm/min		
2.	Type IV, 500 mm/min		
3.	13 mm/min		

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Recommended distributors for this material

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