

Alkadyne™ HDF145B

High Density (HMW) Polyethylene

Qenos Pty Ltd

Message:

Alkadyne™ HDF145B is a black high molecular weight bimodal PE100 High Density Polyethylene. It is a high performance resin for use in pressure pipes where servc life to 100 years is required.

Alkadyne HDF145B offers a balance of excellent processing characteristics along with outstanding toughness, chemical resistance and slow crack growth resistance. Alkadyne HDF145B will also provide excellent resistance to the effects of ultra-violet light exposure in outdoor applications due to well dispersed carbon black.

Alkadyne™ HDF145B is suitable for extrusion into a full range of pipes, where High Density, PE100 type resins are required. In particular, a broad processing window and excellent sag resistance enables the extrusion of larger bore, very thick wall pipe. Alkadyne HDF145B is suitable for use in the transport of a wide range of fluids for industrial, rural and mining applications, including potable water. Suitability for use in any application should be determined by appropriate performance testing.

General Information			
Additive	Carbon Black		
Features	Bimodal Molecular Weight Distribution		
	Good Chemical Resistance		
	Good Processability		
	Good UV Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Ultra High Toughness		
Uses	Fittings		
	Industrial Applications		
	Mining Applications		
	Outdoor Applications		
	Piping		
	Potable Water Applications		
Agency Ratings	AS/NZS 4130		
	AS/NZS 4131		
Appearance	Black		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.961	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	6.6	g/10 min	
190°C/5.0 kg	0.17	g/10 min	
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (1.90 mm)	1300	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 1.90 mm	25.0	MPa	
Break, 1.90 mm	37.0	MPa	
Tensile Elongation ³ (Break, 1.90 mm)	760	%	ASTM D638
Flexural Modulus - 1% Secant ⁴	1120	MPa	ASTM D790
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		
4.	13 mm/min		

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