

Qenos PE GM5010T2

High Density (HMW) Polyethylene

Qenos Pty Ltd

Message:

GM5010T2 is a black high molecular weight High Density Polyethylene copolymer grade designed to provide a balance of excellent processing characteristics with toughness, excellent chemical resistance, ESCR and weatherability. It contains an effective stabiliser and carbon black pigment which ensures long service life. A minimum service life of 50 years is achievable under appropriate pressure and temperature conditions.

GM5010T2 is designed for use as a general purpose jacketing compound for buried wires and cables where abrasion resistance and cut-through resistance in rocky terrain is required. It is also used for line-wire and drop-wire applications in a wide range of environments.

GM5010T2 has also been designed for extrusion into a full range of pressure and non-pressure pipe and fitting sizes, where High Density, PE 80 Type C resins are required. GM5010T2 is suitable for use in the transport of a wide range of fluids for industrial, rural and mining applications, including potable water.

GM5010T2 is designed to meet the requirements for PE 80 Type C compounds under AS 4131. GM5010T2 is suitable for food contact applications and conforms to the requirements of AS2070.

General Information			
Additive	Carbon black (2%)		
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Copolymer		
	Good UV resistance		
	Workability, good		
	Good wear resistance		
	Good chemical resistance		
	Good weather resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	General		
	Cable sheath		
	Wire and cable applications		
	Industrial application		
	Piping system		
	Accessories		
Agency Ratings	Liquid treatment		
	AS 2070-1999		
	Black		
	Particle		
	Pipeline extrusion molding		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method

Specific Gravity	0.958	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.10	g/10 min	ASTM D1238
190°C/21.6 kg	11	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	61		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Flexural Modulus	800	MPa	ASTM D790
Additional Information			

Carbon Black, ASTM D1606: 2.25%Oxidative Induction Time, ISO/TR 10837, 210°C: >20 min

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