

Qenos PE MD0592-1

Medium Density Polyethylene

Qenos Pty Ltd

Message:

MD 0592-1 is a natural, high molecular weight MDPE co-polymer, developed as a general purpose resin for use in coloured resins for striping, pipe and wire & cable applications. MD 0592-1 contains antioxidants to protect it during extrusion and end use.

MD 0592-1 has been designed for extrusion into a full range of pipe and wire & cable products where Medium Density resins are required. Suitability for use in any application should be determined by appropriate performance testing.

MD 0592-1 is suitable for food contact applications and conforms to the requirements of the United States Food and Drug Administration CFR 21 177.1520, paragraph (c) item 3.1.

General Information	
Additive	Antioxidation
Features	High molecular weight
	Copolymer
	Antioxidation
	Compliance of Food Exposure
	General
Uses	Cable sheath
	Wire and cable applications
	Piping system
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1
Forms	Particle
Processing Method	Pipeline extrusion molding
	Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.12	g/10 min	ASTM D1238
190°C/21.6 kg	14	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (F50)	5000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	20.0	MPa	ASTM D638
Fracture	30.0	MPa	ASTM D638

Tensile Elongation (Break)	900	%	ASTM D638
Flexural Modulus	500	MPa	ASTM D790
Additional Information			

Oxidative Induction Time, ISO/TR 10837, 210°C: >20 min

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