

# Qenos PE MD0592

Medium Density Polyethylene

Qenos Pty Ltd

Message:

MD0592 is a non-pigmented, high molecular weight MDPE copolymer, developed as a general purpose resin for use in pipe applications. MD0592 contains antioxidants to protect it during extrusion and end use.

MD0592 has been designed for extrusion into a full range of non-standard pipe products. MD0592 has been designed to be used as a base resin for striping and jacket compounds for use in pressure pipes made of MD0898. Addition of a UV stabilizer should be considered where the intended application involves intermittent to extended exposure to sunlight. Suitability for use in any application should be determined by appropriate performance testing.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Copolymer
	General Purpose
	High Molecular Weight
Uses	General Purpose
	Piping
	Wire & Cable Applications
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	13	g/10 min	
190°C/5.0 kg	0.60	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (1.90 mm)	970	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield, 1.90 mm	21.0	MPa	
Break, 1.90 mm	35.0	MPa	
Tensile Elongation <sup>3</sup> (Break, 1.90 mm)	900	%	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup>	800	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Oxidation Induction Time (210°C)	> 20	min	ISO 11357-6
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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#### Recommended distributors for this material

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