

# Qenos PE HD1090

High Density Polyethylene

Qenos Pty Ltd

## Message:

HD1090 is an injection moulding grade of High Density Polyethylene with a good balance between flow and impact resistance.

HD1090 is intended for use in production of mouldings such as sealant cartridges, pails, crates and closures. 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.

HD1090 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			
Features	Impact resistance, good		
	Good liquidity		
	Compliance of Food Exposure		
Uses	Barrel		
	Shell		
	Loading box		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	47.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.0	MPa	ASTM D638
Flexural Modulus	1100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-30°C)	38	J/m	ASTM D256A

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