

Qenos PE HD0840

High Density (HMW) Polyethylene

Qenos Pty Ltd

Message:

HD0840 is a very high molecular weight High Density Polyethylene copolymer resin, especially formulated for use in large part mouldings where strength and rigidity are of importance. It combines excellent impact strength with good ESCR.

HD0840 is especially suited for blow moulding drums from 15L to 220L and supported IBC's to 1000L in volume. HD0840 is also suitable for Dangerous Goods (DG) applications - depending on the design of the container, the goods to be stored and the DG grouping. Suitability for use in any application should be determined by appropriate performance testing. For outdoor applications, an appropriate UV stabilization package should be added.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Strength		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Medium Rigidity		
Uses	Containers		
	Drums		
	Industrial Applications		
Agency Ratings	AS 2070-1999 4.1.1(a)		
	FDA 21 CFR 177.1520(c) 3.1		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.060	g/10 min	
190°C/21.6 kg	7.0	g/10 min	
190°C/5.0 kg	0.30	g/10 min	
Environmental Stress-Cracking Resistance			ASTM D1693B
10% Igepal, Compression Molded, F50	250	hr	
100% Igepal, Compression Molded, F50	> 1000	hr	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength (Yield, Compression Molded)	26.0	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	900	%	ASTM D638
Flexural Modulus (Compression Molded)	960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-30°C, Compression Molded)	310	J/m	ASTM D256A

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