

Qenos PE HD2845

High Density (MMW) Polyethylene

Qenos Pty Ltd

Message:

HD2845 is a medium molecular weight High Density Polyethylene copolymer blow moulding resin, suited for use in applications where ESCR is a major requirement.

HD2845 may be used in household & industrial chemical (HIC) containers such as detergent and bleach bottles. HD2845 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.

HD2845 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	Copolymer		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
	Medium Molecular Weight		
Uses	Containers		
	Industrial Containers		
Agency Ratings	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	0.20	g/10 min	
190°C/21.6 kg	21	g/10 min	
190°C/5.0 kg	0.80	g/10 min	
Environmental Stress-Cracking Resistance (F50)	200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	28.0	MPa	
Break	32.0	MPa	
Tensile Elongation (Break)	900	%	ASTM D638
Flexural Modulus	920	MPa	ASTM D790

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