

Qenos PE HD115

High Density (HMW) Polyethylene

Qenos Pty Ltd

Message:

HD1155 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 extremely high ESCR.

HD1155 is especially suited for blow moulding self-supporting drums and tanks, size range 25 - 220 litres. Including automotive and marine fuel tanks, and industrial containers. HD1155 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.

HD1155 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		
	Good Impact Resistance		
	Good Strength		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Medium Rigidity		
Uses	Automotive Applications		
	Containers		
	Fuel Tanks		
	Industrial Applications		
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	0.040	g/10 min	
190°C/21.6 kg	9.0	g/10 min	
190°C/5.0 kg	0.40	g/10 min	
Environmental Stress-Cracking Resistance (F50)	200	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	600	MPa	ASTM D638
Tensile Strength			ASTM D638

Yield	25.0	MPa	
Break	26.0	MPa	
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	920	MPa	ASTM D790

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