SureSpec HD51-06

High Density (HMW) Polyethylene

Genesis Polymers

Message:

HD51-06 is a Hexene copolymer High Molecular Weight certified prime resin developed for blow molding of high performance medium to large size industrial containers. HD51-06 features good processability, good melt strength, excellent combination of ESCR, high Impact strength, Stiffness, good Thermoform ability, and good chemical resistance. HD51-06 recommended processing temperature is 190 to 210°C.. HD51-06 complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) + 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information					
Features	Rigid, good				
	High ESCR (Stress Cracking Resistance)				
	High molecular weight				
	High density				
	Copolymer				
	hexene comonomer				
	Impact resistance, high				
	Workability, good				
	Good melt strength				
	Good chemical resistance				
	Compliance of Food Exposure				
Uses	Industrial container				
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a				
	FDA 21 CFR 177.1520(c) 3.2a				
Forms	Particle				
Processing Method	Blow molding				
	Thermoforming				
Physical	Nominal Value	Unit	Test Method		
Density	0.951	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	0.060	g/10 min	ASTM D1238		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength ¹ (Yield)	24.8	MPa	ASTM D638		
Tensile Elongation ² (Break)	800	%	ASTM D638		
Flexural Modulus ³	1070	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Tensile Impact Strength	347	kJ/m²	ASTM D1822		
Thermal	Nominal Value	Unit	Test Method		

Deflection Temperature Under Load MPa, Unannealed)	l (1.8 44.0	°C	ASTM D648		
Additional Information	Nominal Value	Unit			
Processing Temperature	190 - 210	°C			
Test Made on injection molded Type 1 tension test specimen according to ASTM D2146					
NOTE					
1.	50 mm/min				
2.	50 mm/min				
3.	13 mm/min				

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

