

# SureSpec HD54-05

High Density (HMW) Polyethylene

Genesis Polymers

## Message:

HD54-05 is a High Molecular Weight Hexene certified prime copolymer developed for blow molding of high performance medium to large size industrial containers. HD54-05 features High-Swell, consistent processability, outstanding combination of ESCR, Impact strength, Stiffness, Creep resistance, and excellent chemical resistance. HD54-05 recommended processing temperature is 210 to 230°C. HD54-05 complies with FDA regulation 21CFR 177.1520 (c) 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, good Good creep resistance Good chemical resistance Compliance of Food Exposure		
Uses	Industrial container		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.028	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (Compression Molded, F50)	> 1000	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	26.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	800	%	ASTM D638
Flexural Modulus <sup>3</sup>	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	380	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	45.0	°C	ASTM D648
Additional Information	Nominal Value	Unit	Test Method
Blow Molding Temperature	210 - 230	°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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