



PRIMATOP® HDPE 003955P

Amco Polymers - High Density Polyethylene

Wednesday, March 13, 2024

General Information

Product Description

Phillips Process Hexene Copolymer

General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Copolymer	• Hexene Comonomer	• High Stiffness
	• Food Contact Acceptable	• High ESCR (Stress Crack Resist.)	
Uses	• Blow Molding Applications	• Sheet	
Agency Ratings	• FDA 21 CFR 177.1520		
Processing Method	• Blow Molding	• Sheet Extrusion	• Thermoforming

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.35	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			
F50	35.0	hr	ASTM D1693B
100% Igepal, F50	45.0	hr	ASTM D1693A
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	4000	psi	ASTM D638
Tensile Elongation ² (Break)	> 600	%	ASTM D638
Flexural Modulus	200000	psi	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -180	°F	ASTM D746

Notes

¹ Typical properties: these are not to be construed as specifications.

² Type IV, 2.0 in/min

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