

## HD48-240 High Density Polyethylene

**HD48-240** is a certified prime copolymer designed for extrusion molding applications requiring good balance of mechanical properties. **HD48-240** features easy processability, good stiffness, good impact strength, high warp-age resistance and excellent dimensional stability and is suitable for handling materials where resistance to low temperature impact and toughness is required. **HD48-240** is not UV stabilized. Recommended processing temperature is 210 to 250°C. with mold @ 20 to 40°C. **HD48-240** 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.

PROPERTIES	ASTM	UNIT	NOMINAL VALUES
<b>PHYSICAL</b>			
Melt Flow Rate (190 °C, 2.16kg)	D1238	g/10 min	24.0
Density	D1505	g/cm <sup>3</sup>	0.948
<b>MECHANICAL</b>			
Flexural Modulus <sup>1</sup>	D790	psi	130k
Tensile Strength @ Yield <sup>2</sup>	D638	psi	3400
Elongation @ Break <sup>2</sup>	D638	%	600
Durrometer Hardness	D2240	Shore D	68
Vicat Softening	D1525	°F	255
Brittleness Temperature	D746	°F	180
Notched Izod	D256	ft-lbf/in	3.6

Typical Value of Properties not to be construed as specifications

\* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.051 in/min

2 - @ 2 in/min.



## Genesis Polymers

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