



Custom Plastic Sheet and Roll Extrusion Since 1969

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HYDEX 1050

High Molecular Weight Polyethylene

HYDEX 1050 is the Futurex designation for 100% high molecular weight polyethylene. It has a high melt strength which gives it a low sag performance in vacuum forming applications. **HYDEX 1050** is well suited for applications requiring excellent impact strength and resistance to stress cracking and relatively deep draws in vacuum forming. It is available in a variety of surface finishes as shown below and may be custom color matched to your specific needs.

The natural resin in **HYDEX 1050** meets the requirements of FDA regulation 177.1520 (Section 21 CFR). If a color is added to this sheet and it is to be used for applications involving contact with food, contact any member of our Futurex Sales or Customer Service team to request a colorant that also meets the appropriate FDA requirements.

Capabilities

Texture	Gauge Range	Max Width
#1 Haircell	.023-.375"	94"
Levant	.060-.300"	68"
Matte	.016-.375"	94"
Smooth	.016-.050" .050-.375"	49" 94"
Cracked Ice	.023"-.115"	49"
Crush	.023"-.115"	49"

Our virgin resins are in compliance with:
California Prop 65, RoHS, Reach/SVHC,
PFAS, Conflict Minerals, & FDA Food Contact

These are our typical ranges. Other ranges may be available by request.

Typical Properties

General Properties	Test Method	Values
Density	ASTM D-1505	0.948 g/cm ³
Melt Flow Index @ 190° C / 2.16 kg @ 190° C / 21.6 kg (HLMI)	ASTM D-1238 ASTM D-1238	<0.10 g / 10 min 10.0 g / 10 min
Environmental Stress Crack (ESCR) 100% Igepal	ASTM D-1693	600 hr
Tensile Strength - Yield	ASTM D-638	3,750 psi
Tensile Elongation (Break)	ASTM D-638	700%
Brittleness Temperature	ASTM D-746	-103° F
Flexural Modulus	ASTM D-790	177,000 psi
Vicat Softening Temperature	ASTM D-1525	259° F

Additional specifications available upon request.

These data are presented only as typical properties of the base resins which, to the best of our knowledge, are true and accurate. However, since Conditions of use are beyond our control, all recommendations or suggestions are presented without guaranty or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing or future patents.