

Product Information

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CYROVU® HP2 multipolymer compound

Product Profile:

CYROVU HP2 is an impact-modified acrylic-based multipolymer for molding applications.

Typical properties of CYROVU HP2 compound are:

- excellent mechanical properties
- excellent bonding and welding capabilities
- good light transmission
- good impact strength
- good melt flow rate
- good heat resistance

Application:

Used for point-of-purchase displays.

Examples:

Displays, brochure card holders, magazine holders and signage.

Processing:

CYROVU HP2 compound can be processed with 3-zone general purpose screws for engineering thermoplastics.

Packaging:

Available in 1500 lb. gaylord boxes; other packaging available on request.

Properties:

	Parameter	Unit	ASTM-Standard	CYROVU® HP2 compound
Mechanical Properties				Typical Value
Tensile Strength		psi [MPa]	D 638	9000 [62.1]
Tensile Modulus		x10 ⁶ psi [GPa]	D 638	0.43 [3.0]
Tensile Elongation @ Yield		%	D 638	3
Tensile Elongation @ Break		%	D 638	8.0
Flexural Strength		psi [MPa]	D 790	16000 [110]
Flexural Modulus		x10 ⁶ psi [GPa]	D 790	0.41 [2.8]
Notched Izod	¼" bar @23°C	ft-lb/in [J/m]	D 256	0.7 [36.7]
Notched Izod	¼" bar @0°C	ft-lb/in [J/m]	D 256	0.5 [26.2]
Rockwell Hardness		M Scale	D 785	60
Thermal Properties				
Vicat Softening Point		°F [°C]	D 1525	205 [96]
Deflection Temperature, Annealed	1.8MPa, 0.250"	°F [°C]	D 648	180 [82]
Coeff. of Linear Therm. Expansion	32 – 312°F	in/ in/°F	D 696	0.00004
Coeff. of Linear Therm. Expansion	0 – 100°C	mm/mm/°C	D 696	0.000072
Rheological Properties				
Melt Flow Rate	230°C & 5.0 kg	g/10min	D 1238	6.0
Optical Properties				d = 3.2 mm
Light Transmission		%	D 1003	90
Haze		%	D 1003	3.0
Yellowness Index			Cyro TM	Edge color/Pass fail
Other Properties				
Specific Gravity			D 792	1.11
Water Absorption		% Max	D 570	0.3
Mold Shrinkage		in/in, mm/mm	D 955	0.004 – 0.007
Bulk Density		g/cc	D 1895	0.65
Recommended processing conditions				
Predrying Temperature		°F [°C]		175 [80]
Predrying Time		hour		3 – 4
Melt Temperature		°F [°C]		400 – 475 [204 – 246]
Mold Temperature		°F [°C]		110 – 150 [43 – 65]

All listed technical data are typical values intended for your guidance. They are given without obligation and do not constitute a materials specification.

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