CYROVU® HP2

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

CYROVU® HP2 is an impact-modified acrylic-based multipolymer for molding applications. Major use is for point-of-purchase displays. Typical applications include display dispenser, brochure card holders, magazine holders and signage.

The polymer offers a balance of great appearance and rough and tumble durability coupled with attractive economics. The material has found many uses in the Display Industry when strength and clarity are required. The material can be decorated by a wide variety of techniques including: silk screening, hot stamping, pressure sensitive labels, pad printing and metalizing. The product is readily adaptable to tooling designed for styrene, ABS or polycarbonate. Parts made from CYROVU® HP compound can be solvent bonded, thermal-bonded and ultrasonic or spin-welded.

General Information			
UL YellowCard	E54671-244574		
Additive	Impact Modifier		
Features	Bondability		
	Good Strength		
	High Clarity		
	Impact Modified		
	Pleasing Surface Appearance		
Uses	Displays		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm³	ASTM D792
Apparent Density	0.65	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength	62.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.0	%	
Break	8.0	%	
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
0°C, 6.35 mm	27	J/m	
23°C, 6.35 mm	37	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	82.2	°C	ASTM D648
Vicat Softening Temperature	96.0	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	7.2E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 μm)	90.0	%	ASTM D1003
Haze (3200 µm)	3.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	204 to 246	°C	
Mold Temperature	43.3 to 65.6	°C	

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Recommended distributors for this material

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