

CYROVU® HP2

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	6	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Modulus	3000	MPa	ASTM D 638
Tensile Strength	62.1	MPa	ASTM D 638
Elongation at Yield	3	%	ASTM D 638
Elongation at Break	8	%	ASTM D 638
Flexural Modulus	2800	MPa	ASTM D 790
Flexural Strength	110	MPa	ASTM D 790
Rockwell Hardness	M 60	-	ASTM D 785
Izod Impact notched, 1/4 in	36.7	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	26.2	J/m	ASTM D 256
Thermal properties			
ASTM Data	Value	Unit	Test Standard
Coefficient of Thermal Expansion, MD	72	E-6/K	ASTM D 696
Vicat Temperature	96	°C	ASTM D 1525
Optical properties			
ASTM Data	Value	Unit	Test Standard
Haze	3	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003
Other properties			
Value	Unit	Test Standard	
Water Absorption, Equilibrium	0.3	%	ASTM D 570
Density	1110	kg/m ³	ASTM D 792
Bulk Density	650	kg/m ³	-
Processing Recommendation Injection Molding			
Value	Unit	Test Standard	
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	3 - 4	h	-
Melt temperature	204 - 246	°C	-
Mold temperature	43 - 65	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Special Characteristics

High impact or impact modified