



### Technical Document for Cast Acrylic Sheet

The cast acrylic sheet has been formed from high purity VIRGIN methyl methacrylate monomer. It shall be light weight, colourless, clear transparent sheet with weather resistance properties to sunlight and outdoor weather conditions.

The sheets should be suitable for deep drawn, intricate shapes and relatively sharp curvatures. For this they can be made available in popular colours.

#### a) Standard type/colours

001	Clear
002	Blue
003	Milky White
004	Embossed

#### b) It shall have following properties.

1. GENERAL	Value	Test as per IS:7569
Thickness	As given in relevent drg/spec.	
Specific gravity	1.18 to 1.24	Appendix-A
Water absorptio	0.3% (maximum)	Appendix-C
Burning rate	30mm/min. (maximum)	Appendix-D
2. OPTICAL		
Total light transmittance	93% (min)	Appendix-G
Haze percent	3%	Appendix-G
Refractive index ( $\mu$ )	1.49 (max)	Appendix-F
3. MECHANICAL		
Tensile strength	760kg/cmsq. (min)	Appendix-B
Izode impact strength	0.4 ft-lb/inch (min)	
Module of elasticity	28000Kg/cmsq.	
Rockwell hardness	M100	
4. THERMAL		
Heat distortion temp	100 deg. C (min)	Appendix-E
2 deg. C/min at 264 psi		
5. ELECTRICAL		
	15	
Volume resistivity	>10 ohm-cm.	
Dielectric strength	20KV/mm (min)	