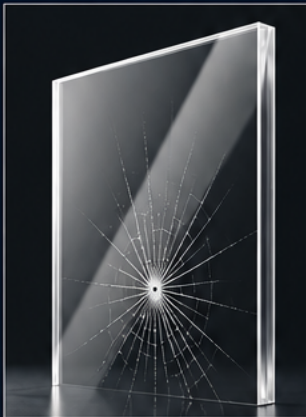




# PHYSICAL PROPERTIES OF AcryGlas High Impact

## AcryGlas HIGH IMPACT



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**TOUGHER.  
STRONGER.  
CLEARER.**

Engineered for impact.  
Built for performance.

## MECHANICAL & OPTICAL PROPERTIES EVALUATION RESULTS OF 3MM PMMA SHEET

		PMMA	Resist 45	Resist 75	
Optical Properties	Refractive Index	1.4822	1.486	1.4905	
	Optical Specific Gravity	1.19	1.17	1.159	
	Clarity	T2(%)	92.27	91.56	91.25
		Haze(%)	0.89	1.25	1.47
Properties	HDT	(°C)	87.2	98.6	92.4
	Vicat	(°C)	102.9	99.6	94.4
	MFR	g/10min	6.8	4.1	1.5
Tensile properties		$\sigma_y$ (MPa)	73.5	55.3	38.8
		$\sigma_B$ (MPa)	68	43.7	37.1
		Elongation(%)	9.5	47.6	74.8
Physical Properties	Flexural properties	Strength (MPa)	123.6	88.7	59.1
		Modulus (MPa)	3508	2472	1627
	1/4" IZOD Impact (ft-lb/in)		0.39	0.78	1.22
	1/8" IZOD Impact (ft-lb/in)		0.37	0.81	1.47
	Rockwell hardness	M scale	96.3	75.7	41.1

## CONCLUSION



### TRANSPARENCY:

Transparency is slightly lower than compared to actual PMMA sheet.  
Transparency is in decreasing trend with addition of modifier.



### COLOR:

Color value is showing slightly low in whiteness and the yellowness Index is increasing with addition of modifier.



### ROCKWELL HARDNESS:

Generally PMMA is the very hard material. Hardness getting lower with addition of the modifier because modifier impart rubbery structure in the polymer matrix which results in slightly low hardness in PMMA Sheet.



HIGH IMPACT  
RESISTANCE



EXCELLENT  
CLARITY



UV  
STABILITY



LIGHTWEIGHT  
& TOUGH



EASY TO FABRICATE  
& MACHINE



RECYCLABLE