



Physical Properties Of Acriplex EX 75

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Table: Mechanical & Optical Properties Evaluation Results of 3mm PMMA Sheet

			EX 75
	Refractive index		1.4905
Optical Properties	Specific Gravity		1.159
	Clarity	T2(%)	91.25
		Haze (%)	1.47
Properties	HDT	(°C)	92.4
	Vicat	(°C)	94.4
	MFR	g/10min	1.5
Physical Properties	Tensile Properties	σ_y (MPa)	38.8
		σ_B (MPa)	37.1
		Elongation (%)	74.8
	Flexural Properties	Strength (Mpa)	59.1
		Modulus (Mpa)	1627
	1/4" IZOD Impact	(ft-lb/in)	1.22
	1/8" IZOD Impact	(ft-lb/in)	1.47
Rockwell Hardness	M Scale	41.1	

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

Rockwell Hardness:

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

