



# Hydex 202 & 301

Clear and opaque rods and slabs

TEST	ASTM	UNITS	HYDEX 301	HYDEX 202
Tensile Strength				
At Yield	D638	PSI	10,000	9,000
At Break	D638	PSI	9,000	8,000
Tensile Elongation				
At Yield	D638	%	7	8.5
At Break		%	140	90
Tensile Modulus	D638	PSI	310,000	260,000
Flexural Strength	D790	PSI	14,000	12,000
Flexural Modulus	D790	PSI	340,000	280,000
IZOD Impact				
	D256			
Notched 1/8", 73° F		FT-LB / IN.	2.4	10
Notched 1/8", -40 °F		FT-LB / IN.	0.8	3
Instrumented Dart Impact,				
Total Energy@ 73° F	D3763	IN-LB	800	400
Deflection Temperature Under Load				
66 PSI, Annealed	D648	°F	220	290
264 PSI, Annealed		°F	170	280
66 PSI, Unannealed		°F	190	260
264 PSI, Unannealed		°F	170	240
Vicat Temperature	D1525	°F	228	292
Coefficient of Linear				
Thermal Expansion	D696	10 <sup>-5</sup> IN / IN°F	3.4	3.7
Light Transmission				
	D1003	%	90	NA
Actual light transmission will vary depending on cross sectional thickness of material. 1/8" thick test specimen.				
Water Absorption				
24 hrs @ 73°F	D570	%	0.19	0.21
Specific Gravity	D792		1.20	1.20
Taber Abrasion Test				
				5
Coefficient of Friction –				
Resin Counter Surface				
Static			0.25	0.24
Dynamic			1.25	0.23
Stainless Steel				
Counter Surface				
Static			0.22	0.26
Dynamic			0.21	0.22