

ACRYLITE® acrylic molding & extrusion compounds

Physical Properties

Property	ASTM Method	ACRYLITE DQ 501 Compound	ACRYLITE S10/8N Compound	ACRYLITE S11 Compound	ACRYLITE H15 Compound	ACRYLITE H12 Compound	ACRYLITE H10 Compound
OPTICAL							
Light Transmission, %	D-1003	92	92	92	92	92	92
Haze, %	D-1003	<1	<1	<1	<1	<1	<1
Refractive Index	D-542	1.49	1.49	1.49	1.49	1.49	1.49
RHEOLOGICAL							
Avg Melt Flow, g/10 min @ 230°C & 3.8 kg	D-1238	6.0	3.4	1.8	2.2	7.0	14.0
MECHANICAL							
Tensile Strength, psi (MPa)	D-638	10,400 (72)	11,300 (77.9)	11,300 (77.9)	9,800 (67.6)	9,500 (65.5)	10,200 (70.3)
Tensile Modulus, x10 ⁶ psi (GPa)	D-638	0.44 (3.0)	0.47 (3.2)	0.47 (3.2)	0.47 (3.2)	0.47 (3.2)	0.54 (3.7)
Tensile Elongation @ Yield, %	D-638	4-6	4-6	4-6	4-6	4-6	2.5
Tensile Elongation @ Break, %	D-638	4-6	4-6	4-6	4-6	4-6	2.5
Flexural Strength, psi (MPa)	D-790	16,200 (111.7)	16,200 (111.7)	18,700 (128.9)	17,000 (117.2)	17,000 (117.2)	14,200 (97.9)
Flexural Modulus, x10 ⁶ psi (GPa)	D-790	0.49 (3.4)	0.50 (3.5)	0.49 (3.4)	0.49 (3.4)	0.49 (3.4)	0.49 (3.4)
Notched Izod, ft-lb/in (J/m) on 1/4" (6.35mm) bar @ 23°C	D-256	0.36 (19)	0.36 (19)	0.36 (19)	0.36 (19)	0.36 (19)	0.36 (19)
Compressive Strength, psi (MPa)	D-695	N/A	17,000 (117.2)	17,000 (117.2)	17,000 (117.2)	17,000 (117.2)	16,200 (111.6)
Rockwell Hardness, M scale	D-785	93	95	95	95	94	90
PHYSICAL							
DTL, °F (°C) @ 264 psi, annealed	D-648	208 (98)	212 (100)	212 (100)	203 (96)	201 (95)	196 (91)
Vicat Softening Point, °F (°C)	D-1525	237 (114)	243 (117)	243 (117)	221 (105)	221 (105)	219 (104)
Specific Gravity	D-792	1.19	1.19	1.19	1.19	1.19	1.19
Water Absorption, % max	D-570	0.3	0.3	0.3	0.3	0.3	0.3
Mold Shrinkage, in/in, mm/mm	D-551	0.004-0.007	0.004-0.007	0.004-0.007	0.004-0.007	0.004-0.006	0.003-0.006
Coefficient of Linear Expansion in/in/°F, 32-212°F (mm/mm°C, 0-100°C)	D-696	0.00004 (0.000072)	0.00004 (0.000072)	0.00004 (0.000072)	0.00034 (0.000072)	0.00004 (0.000072)	0.00004 (0.000072)
Flammability		UL 94 HB	UL 94 HB	UL 94 HB	UL 94 HB	UL 94 HB	UL 94 HB
CLASS	D-788-84 D-788-93	PMMA	8 PMMA0140V3	8 PMMA0140V1	8 PMMA0140V2	8 PMMA0130V4	8 PMMA0132V5

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