Polytek Development Corp.

Physical Properties of EasyFlo-Series Liquid Plastics

Product	EasyFlo 60	EasyFlo 95	EasyFlo 100 FR	EasyFlo 120	EasyFlo Clear	EasyFlo Spray FR
Mix Ratio By Volume (By Weight)	1A:1B (100A:90B)	1A:1B (100A:90B)	1A:1B (100A:100B)	1A:1B (100A:90B)	1A:1B (100A:90B)	1A:1B (100A:90B)
Part A Color	Clear Yellow	Clear Yellow	Clear Yellow	Clear Yellow	Clear Yellow	Clear Yellow
Part B Color	Clear Slight Yellow	Clear Slight Yellow	Clear Yellow/Pink	Clear Slight Yellow	Clear Slight Yellow	Clear Yellow/Pink
Mix Viscosity, cP	60	90	120	120	110	250
Pot Life, min	2 - 2½	5	2 - 2½	2 - 2½	2 - 2½	5 seconds
Maximum Exotherm, °F (°C)	230 (110)	206 (97)	200 (93)	200 (93)	208 (98)	251 (122)
Demold Time (min)	15-30	30-60	15-30	15-30	15-30	5
Total Cure Time	7 Days	7 Days	7 Days	7 Days	7 Days	7 Days
Linear Shrinkage	0.0041	0.0074	0.0065	0.0065	0.0154	*
Specific Gravity	1.03	1.03	1.10	1.03	1.03	1.16
Shore D Hardness	65	65	65	65	72	75
Tensile Strength, psi (mPA)	2,936 (20.2) 4,730 (32.6) **	3,743 (25.8) 4,071 (28.1) **	3,170 (21.9) ND	3,534 (24.4) 5,395 (37.2) **	4,091 (28.2) ND**	7,110 (49.0)
Elastic Modulus, psi (mPA)	72,627 (500.9) 96,286 (664.0) **	22,758 (157.0) 112,202 (773.8) **	85,928 (592.6) ND**	85,149 (587.2) 134,384 (926.8) **	97,532 (672.6) ND**	165,600 (1142.0)
Flexural Strength, 5% Strain, psi (mPA)	3,915 (27.0) 5,226 (36.0) **	1,649 (11.4) 5,991 (41.3) **	4,284 (29.5) ND**	4,845 (33.4) 5,728 (39.5) **	6,007 (41.4) ND** ND**	10,545 (72.7)
Flexural Modulus psi (mPA)	93,112 (642.1) 127,429 (878.8) **	25,072 (172.9) 32,559 (224.5) **	117,878 (812.6) ND**	133,765 (922.5) 142,940 (985.8) **	165,733 (1,143.0) ND**	280,007 (1931.1)
Heat Deflection Temperature, °F (°C)	149 (65) 167 (75) **	132 (56) 148 (64) **	165 (74) ND**	146 (63) 159 (71) **	133 (56) ND**	175 (79)
% Elongation	13.9 9.4**	10.1 7.1**	9.0 ND**	10.3 7.9**	7.7 ND**	8.3

[1] Component requires stirring before use.

* Shrinkage is primarily caused by gelling while hot then cooling. Parts that cure with minimal temperature rise exhibit minimal shrinkage. Reported shrinkage is inch/inch.

** Post cured for 16 hours at 160°F. If post cure data is not listed, then post cure is not recommended.

Conventions: °C = (°F -32) x 0.57
psi/145 = MPa (megaPascals)
pli x .1751 = kN/m (kiloNewtons per meter)
ND = Not Determined

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