

Physical and optical limits Tritan

Stand Juli 2009

Poperties	Unit / Comment	Tritan	Tolerance Range
Refraction	[n _d]	Laboratory Schott Mainz, FTV-4 1,5221	1,522 ± 0,001
	[n _e]	1,5243	
	[n _D]	1,522	
Dispersion	[V _d]	56,75	
	[V _e]	56,49	
Transmission/locus	Transmission (for the entire VIS-range) luminosity	Laboratory Zwiesel Kristallglas Y = 90,3	≥ 88,5
Regulation according to DIN 5033 Standart light D65, observer 10		L* = 96,1	≥ 95,2
Density	g/cm ³	Laboratory Schott Mainz, FTV-4 2,515	
Elongation (20°C; 300°C)	[10e-6*K ⁻¹]	Laboratory Schott Mainz, FTV-4 9,3	
Chemical resistance	Äquiv. NA ₂ O [ug/g] Wight loss [mg/dm ²] Wight loss [mg/dm ²] [%]	Laboratory Schott Mainz, FTV-4 156 HGB 3 Water DIN ISO 719	4
Water resistance		0,4 1 W Acid DIN ISO 12116	1 - 2
Acid resistance		79 A 2 Alkali DIN ISO 695	1 - 2
Alkali resistance			
Sodium content Na ₂ O		8,7	± 0,2
Viscosity	[°C]	Laboratory Schott Mainz, FTV-4	(Target - Tolerance) 539 -15
T (10 ¹³ dPas)		539 ¹⁾	

¹⁾ = Target value without measuring tolerance of ± 3 °C. d. h. 536 bis 542 °C