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S-FPM4

High partial dispersion ratios ?g

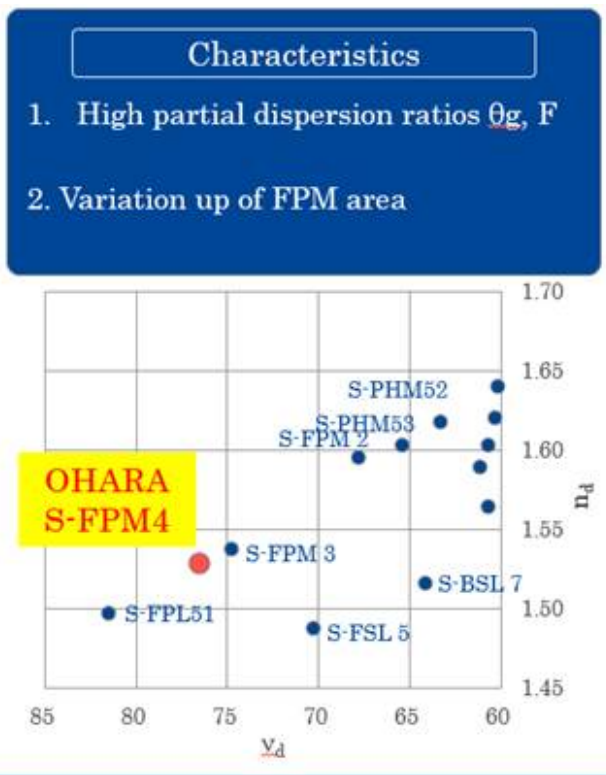
S-FPM4 is an optical glass with high partial dispersion ratios θg, F in the FPM region. The material is very useful for polished lenses that are effective for secondary chromatic aberration correction and these characteristics make it ideal for use in a wide range of applications, such as interchangeable photographic and broadcast lenses as well as automotive lenses. (maximum THK is 35mm)

Advantages

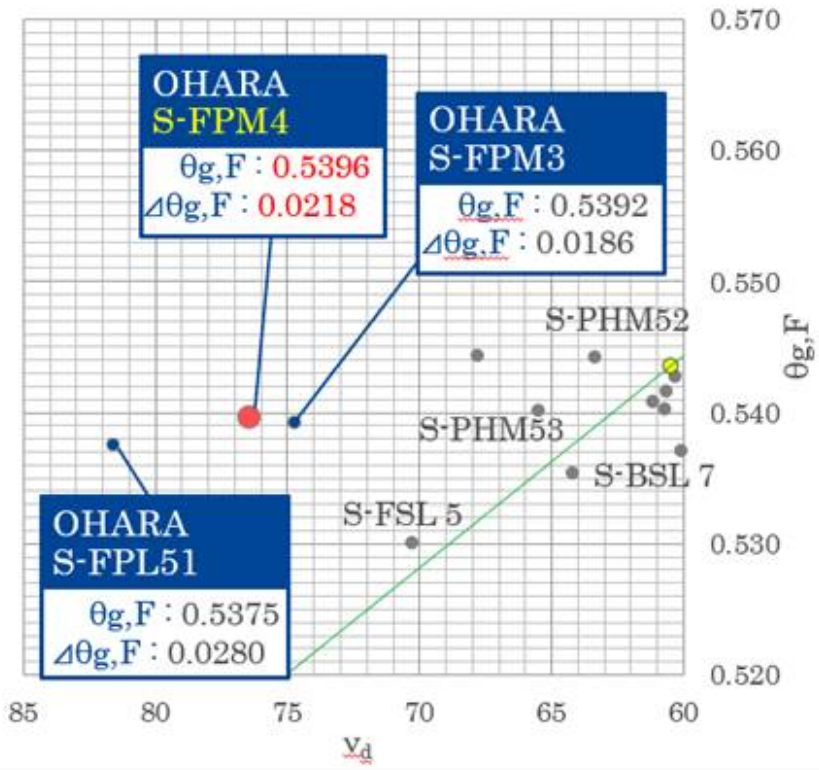
- High partial dispersion ratios θg, F

Comparison

Type	Code	n_c	n_d	n_F	n_g	v_d	s.g.	Coloring
S-FPM4	528765	1.52630	1.52841	1.53321	1.53694	76.46	3.76	340/-



		S-FPM4	S-FPL51	S-FPM3
Refractive index: nd		1.52841	1.49700	1.53775
Abbe number: νd		76.46	81.54	74.70
Partial dispersion ratio θg, F		0.5396	0.5375	0.5392
Deviation of Partial dispersion Δθg, F		0.0218	0.0280	0.0186
Expansion coefficients	-30~70℃	123	131	115
	+100~300℃	143	155	138
Transformation Temp Tg(℃)		488	458	496
Yield point At(℃)		520	489	524
Coloring	λ80(λ70)	340	340	345
	λ5	-	290	-
Water resistance: RW(P)		1	1	1
Acid resistance: RA(P)		3	3	3
Wheathring resistance: W(S)		1	1	1
Acid SR		51.3	52.1	5.1
Phosphate resistance		4.3	4.0	4.1
Specific gravity		3.76	3.62	3.64
Knoop hardness: Hk		360[4]	350[4]	390[4]
Abrasion: Aa		506	449	373



θg, F of S-FPM4 is located between S-FPL51 and S-FPM3.