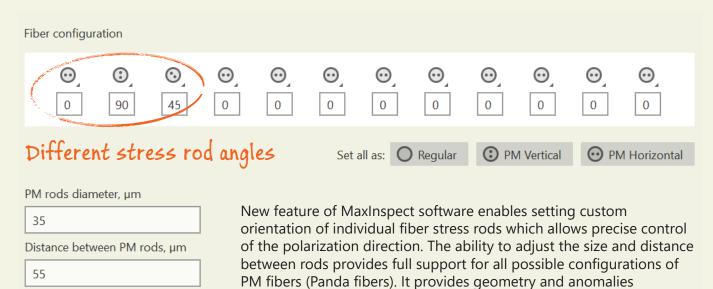


Sumix provides advanced support for Polarization-Maintaining fiber inspection. Our quality control includes automatic angle measurement and custom Pass/Fail parameters that match connector specification.

# New feature of MaxInspect software for Polarization-Maintaining fiber



### **Features:**

Applicable with Interferometers and Microscope probes

inspection of connectors according to criteria as close as possible to international standards for assessing the quality of optical connectors,

Multi-fiber and Single fiber support

opening wide opportunities for manufacturers.

- Shift MT handling with Polaris benchtop microscope
- Custom fiber configuration
- Adjustable stress rods angle for each individual fiber
- Change PM rods diameter
- Set custom distance between PM rods
- Pass/Fail result for rods angle

Tel.: +1 (877) 233-3385

# Sample measurement report for MPO 24 PM fiber

Name:	Result342
Date & Time:	2/23/2024 3:22:4 PM
Task name:	MT24-APC PM
Scan quality:	Ok
Device SN, Fixture SN:	QUANTUM 40031, not defined
Connector ID:	
Customer:	
Technician:	Tanya
Company:	Sumix
Core dip algorithm:	Parabolic
Fitting regions:	L=2900µm; H=1160µm; E=140µm; F=50µm; CumA=20%; Top=3%
Pass/Fail standard:	IEC 61755-3-32 (based on)
Calculation standard:	IEC 61300-3-30/Ed2
SD Pass/Fail standard:	IEC 61300-3-35/Ed3 SM APC (SFOV)
Anomalies detection method:	2D



## FERRULE

Measurement Parameter	Units	Pass/Fa	il Limits	Measured Value	Verdict PASS PASS	
	Units	Min	Max	weasured value		
Ferrule Radius of Curvature X	mm	-10000.00*	2000.00*	4790.36		
Ferrule Radius of Curvature Y	mm	5.00		200.35		
Tilt Angle X		-0.1500	0.1500	0.0091	PASS	
Tilt Angle Y	0	7.8000	8.2000	8.0179	PASS	
Dome Height	nm			793.96	N/A	

\* - Pass value must be less than Min and greater than Max

## FIBER HEIGHT LIMITS

Measurement Parameter	11000	Pass,	Fail Limits	Measured Value	Verdict
	Units	Min	Max	Measured value	verdict
Max-Min	nm			313	N/A
Max Adj Diff	nm	0	500	173	PASS
Minus Coplanarity	nm	0.0	300.0	117.3	PASS
Coplanarity Plane Angle X	۰			0.0213	N/A
Coplanarity Plane Angle Y	۰			8.0436	N/A

## FIBERS FROM 1 TO 12

Measurement Parameter Units	United	Pass/F	Pass/Fail Limits		Fiber Number / Measured Value / Verdict											
	Min	Max	1	2	3	4	5	6	7	8	9	10	11	12		
Height	nm	1000	3500	2133	2169	2213	2269	2303	2282	2230	2224	2170	2192	2143	2102	
ROC	mm	1.00		4.34	4.34	4.26	4.60	4.76	4.49	4.24	4.45	4.68	4.58	4.51	4.23	
Core Dip	nm			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Rods Angle	0			88.4	88.4	87.8	89.3	89.3	87.9	89.0	89.0	88.2	88.0	88.4	88.3	

### FIBERS FROM 13 TO 24

Measurement Parameter Units	11-34-	Pass/Fail Limits		Fiber Number / Measured Value / Verdict											
	Min	Max	13	14	15	16	17	18	19	20	21	22	23	24	
Height	nm	1000	3500	1990	2045	2090	2151	2162	2109	2162	2163	2114	2062	2029	2017
ROC	mm	1.00		4.11	4.70	4.32	4.58	4.76	4.53	4.98	4.65	5.14	4.33	4.33	4.25
Core Dip	nm			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rods Angle	۰			88.8	88.0	88.7	88.9	88.7	90.7	90.3	90.9	89.2	91.5	89.9	91.2

