

Technical Literature F-01-05

Oil Resistance of AURUM[®] JCN3030

Given below are results of an oil resistance test conducted on AURUM[®] JCN3030.

1. Immersion Conditions

Oil: Nisseki High Therm 32 thermal oil
 Temperature: 180°C
 Time: 0, 500, 1,000 and 2,000 hrs

2. Sample

Injection-molded articles of JCN3030 (ASTM bending test specimens)

3. Test Results

Time hrs	Flexural strength kg/cm ²	Flexural modulus kg/cm ²	Weigh retention percentage %	Change in appearance Remarks
0	32.7	1,810		
	31.7	1,850		
	31.5	1,880		
	31.7	1,860		
	32.2	1,950		
Average	32.0	1,870	100	
500	34.1	1,900		No change in appearance
	33.8	1,920		
	33.8	1,940		
	33.0	1,860		
	32.8	1,900		
Average Retention (%)	33.5	1,900	99.5	
1000	33.4	1,840		No change in appearance
	33.1	1,910		
	32.9	1,910		
	34.2	1,950		
	34.2	1,950		
Average Retention (%)	33.7	1,910	99.4	
	105.3	102.1		

The information contained herein is based on the information and data available at this moment, but none of the data or evaluation results contained herein provide any warranty whatsoever.

2000	34.2	1,930	No change in appearance
	33.7	1,950	
	33.7	1,980	
	33.5	1,950	
	34.0	1,980	
Average Retention (%)	33.8	1,960	
	<u>105.6</u>	<u>104.8</u>	<u>99.5</u>

Bending test conditions: CHS = 1.5 mm/min

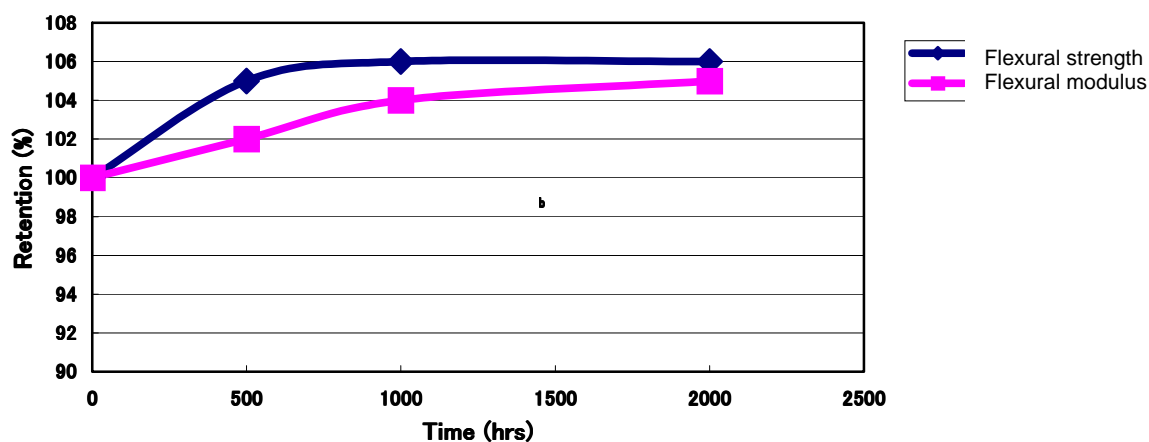
Oil Resistance of AURUM[®] (180°) (%)

(Film)

		Gear oil		
		500 hrs	1,000 hrs	2,000 hrs
Retention percentage	Tensile strength at yield point	110	110	120
	Tensile strength at break	95	90	95
Other	Appearance	No change	No change	No change

Note: Gear oil: Showa White Parrot S-3 (10W-30)

JCN3030 Bending Oil Test



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