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TSM 71000 TSM 7100G 7M12

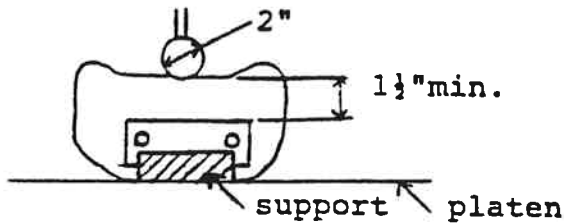
TECHNICAL INSTRUCTION SHEET		NUMBER
1. PROTOTYPE 2. <u>MASS PRODUCTION</u>	01304-9A003-	
TITLE TIS, 028W 2" BALL HARDNESS TEST → Non Destructive test		
APPLICATION RANGE (VEHICLE OR ENGINE) APPLIES TO HEADRESTS FOR 028W PADS.		
This is for 028W program → Need TMC to issue similar TIS sheet for 483N to address HR and MR T'bulg → needs to generate correlation data		
SUMMARY INSTRUCTIONS FOR MEASURING HARDNESS.		
NEW ADOPTION		
028WB0093		9-15-93
JN		
S M S	ISS	REVISION RECORD
INVOLVED DEPTS.		E.C. NO.
APPROVED		DATE
APPROVED		REVISER
CHECKED		STAFF CODE
DRAWN		DATE
10/1/93		93
HISTORY		
DISTRIBUTION	QTY	TOTAL
22 M	1 PEO	1
MED	1 TMC 28B	1
		4

TECHNICAL INSTRUCTION SHEET

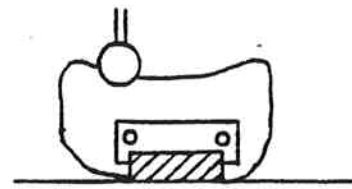
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One preferred test method for headrests utilizes a 2" (50.8mm) diameter test ball which requires only a small test area. The test area must be well supported by means of foam design or a support fixture. It is important that the test area be chosen so that the ball uniformly indents the foam (Figures 1 and 2) and a minimum of 1½" (38mm) of foam exists directly below the test location.



correct test location
Figure 1



incorrect test location
Figure 2

The test is performed as follows:

1. The test ball is positioned above the test area of the sample (Figure 3) on the load cell as indicated on the drawing.

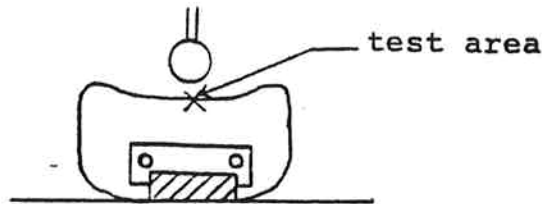


Figure 3

2. A 0.2# (0.1kg) load is applied to the sample and a reference point is determined (Figure 4).

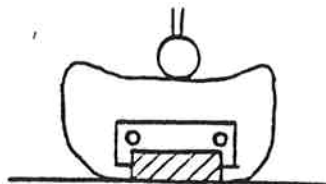


Figure 4

TECHNICAL INSTRUCTION SHEET		NUMBER 01 304-9A003-		
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3. From the reference point, the sample is deflected $\frac{1}{2}$ " (12.7mm) and the load cell is allowed to stabilize for 5 seconds (Figure 5).

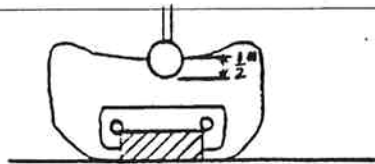


Figure 5

4. After the 5 second delay, a direct reading of the residual force is obtained.

Providing the test area meets the minimum thickness requirement and the test area is adequately supported, this test method is generally repeatable.