



**JDC DISK DRIVE SOLUTIONS, Inc.**  
 Registered ISO 9001:2008

**T E C H N I C A L      D A T A**

**MD15**  
**ULTRA HIGH PURITY DAMPING POLYMER**

**DESCRIPTION**

MD 15 is designed for disk drive damping applications. The MD15 exhibits enhanced high temperature damping over a wide temperature range. It has been widely used in disc drive cover damper applications.

MD15 has excellent shear and high temperature properties. This adhesive has moderate initial adhesion however the adhesion level increases with residence. The MD15 is not recommended for seal applications where quick maximum bond strength is important. MD15 adhesive films meet all the critical hard disk drive industry chemical cleanliness standards.

The MD15 adhesive is typically supplied as a free film transfer adhesive, ranging from 1-4 mils thick. The standard liners used with the adhesive films are easy and medium release low-extractable silicone release coatings on 1.5 mil polyester films. For less demanding applications the MD15 is also available supplied on a paper release liner.

MD15 adhesive is also available in a variety of 2-sided supported adhesive constructions and can be matched with other disk drive adhesives on the opposite side of the support film.

**TYPICAL PERFORMANCE DATA**

<b>PEEL ADHESION (PSTC-101)</b> <b>[2 mils dry on 2 mil polyester backing]</b>	<u>Stainless Steel</u>	<u>E-Coat</u>	<u>Aluminum</u>
15 MINUTE APPLIED, OUNCES/INCH	45 – 60	50-65	45-60
24 HOURS APPLIED, OUNCES/INCH	65 – 75	65-85	65-75

**STATIC SHEAR (PSTC-107)**  
 ½” x 1” - 1000 Grams ( Hours ) > 24 hrs

<b>TYPICAL OUT GASSING</b>	Total Out Gassing	200 – 500 ng/cm <sup>2</sup>
2 mil thick adhesive	Hydrocarbons	< 75 ng/cm <sup>2</sup>
IDEMA M11-99 Method	Siloxanes	< 5 ng/cm <sup>2</sup>
	Phenols / Alcohols	< 100 ng/cm <sup>2</sup>
	Unknowns / Others	< 200 ng/cm <sup>2</sup>

<b>IONIC CLEANLINESS</b>	Total Anions	< 0 .04 µg /cm <sup>2</sup>
	No Anion Exceeds	0.02 µg /cm <sup>2</sup>

**MINIMUM APPLICATION TEMPERATURE** +65 DEGREES F

**NO LOAD APPLIED, SERVICE TEMPERATURE RANGE**  
 -45 to 250° F CONTINUOUS (Days, Weeks)  
 -65 to 300° F SHORT TERM (Minutes, Hours)

**NOTE:** Performance data indicates average production values from stainless steel and should not be used for minimum specification values. It is required that the converter determines suitability of tape prior to use.

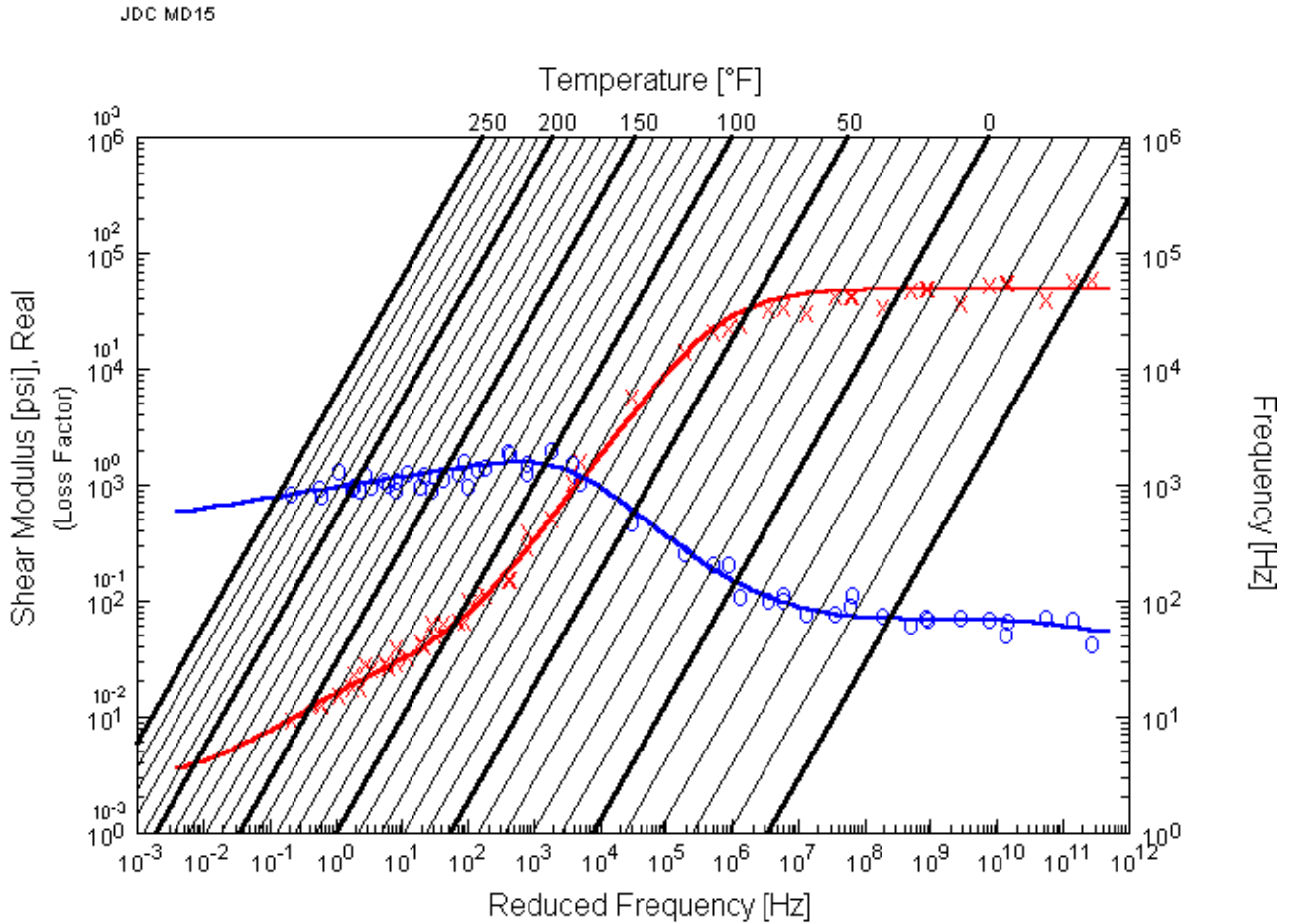
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**DAMPING - THE NOMOGRAM FOR THE MD15 ADHESIVE**



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