

# Plavis® MS

Thermoplastic Polyimide

Comco Nylon GmbH

## Message:

PLAVIS is a super engineering plastic. PLAVIS polyimide has a unique chemical structure with some of the highest properties available. Nitrogen bonded to 3 carbons is the critical part of the chain and imparts the plastic with remarkable features and benefits.

DAELIM makes PLAVIS isostatic molded rods have uniform properties in all directions.

General Information			
Additive	Molybdenum disulfide lubricant (15%)		
Features	The degassing effect is low to no		
	Heat resistance, high		
	Self-lubricating		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, Compression Molded)	70 - 90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Break, 23°C)	63.7	MPa	ASTM D1708
Tensile Elongation <sup>2</sup> (Break, 23°C)	4.0	%	ASTM D1708
Flexural Modulus			ASTM D790
23°C, molded	3330	MPa	ASTM D790
260°C, molding	1860	MPa	ASTM D790
Flexural Strength			ASTM D790
23°C, molded	78.5	MPa	ASTM D790
260°C, molding	44.1	MPa	ASTM D790
Compressive Modulus <sup>3</sup>	2450	MPa	ASTM D695
Compressive Strength <sup>4</sup>			ASTM D695
1% strain, 23°C	34.3	MPa	ASTM D695
10% strain, 23°C	128	MPa	ASTM D695
Wear Rate	33	mm/sec	
NOTE			
1.	Compression Molded		
2.	Compression Molded		
3.	Compression Molded		
4.	Compression Molded		

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