

# TECAMID™ HS

Polyamide 66

Ensinger Inc.

## Message:

Nylon was the first engineering resin. It has been used in applications ranging from electronic, marine, and automotive industries to fibers used to make carpet. Nylon has outstanding wear resistance and low frictional properties. It has very good temperature, chemical, and impact properties. However, nylon's one weakness is a propensity to absorb moisture and thus have poor dimensional stability. TECAMID® has an excellent balance of properties which make it an ideal material for metal replacement in applications such as automotive parts, industrial valves, railway tie insulators, and other industry uses whose design requirements include high strength, toughness, and weight reduction. Type 6/6 nylon. Heat Stabilized nylon. Increased ability to withstand the negative effects of heat exposure and increased overall service temperature over Tecamid® 6/6.

General Information			
Additive	heat stabilizer		
Features	Low friction coefficient		
	High strength		
	Impact resistance, good		
	Good chemical resistance		
	Good wear resistance		
	Thermal Stability		
Uses	Good toughness		
	Valve/valve components		
	Industrial application		
	Metal substitution		
Forms	Application in Automobile Field		
	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	68.9	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	25	%	ASTM D638
Flexural Modulus (23°C)	3030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact (23°C)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	90.0	°C	ASTM D648
Melting Temperature	262	°C	ASTM D2133

Flammability	Nominal Value	Test Method
Flame Rating (0.750 mm)	HB	UL 94
Additional Information		

Data obtained from extruded shapes material.

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