TECAMID™ GF30

Polyamide 66

Ensinger Inc.

Message:

TECAMID® 6/6 GF30 is a 30% glass-fiber reinforced nylon 6/6 material whose important properties include high tensile and flexural strength, stiffness, excellent heat deflection temperature, and superior abrasion and wear resistance. While all TECAMID® materials have high mechanical strength and superior resistance to wear and organic chemicals, TECAMID® 6/6 GF30 has more than double the strength and stiffness of unreinforced nylons and a heat deflection temperature which approaches its melting point.
TECAMID® 6/6 GF30 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.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Features	Rigidity, high High tensile strength High strength Good creep resistance Good wear resistance Good chemical resistance Good wear resistance Good toughness
Uses	Valve/valve components Industrial application Metal substitution Application in Automobile Field
Forms	Shapes

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.10	%	ASTM D570
Saturation	0.30	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	88		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ASTM D638
Tensile Strength (Yield)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	14	%	ASTM D638
Flexural Modulus	4700	MPa	ASTM D790
Flexural Strength	135	MPa	ASTM D790
Compressive Modulus	4100	MPa	ASTM D695

Compressive Strength			ASTM D695
1% strain	25.0	MPa	ASTM D695
2% strain	46.0	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Unnotched Izod Impact	96	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	254	°C	
CLTE - Flow	4.9E-5	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Intermittent	170	°C	
Long Term	110	°C	

Additional Information

Data obtained from extruded shapes material.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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