

## E-Polymers TEKAMID® TA210ST Super Tough PA66, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

### Material Notes:

Super Toughness Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_E-Polymers-TEKAMID-TA210ST-Super-Tough-PA66-DAM.php](http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TA210ST-Super-Tough-PA66-DAM.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.2 %	1.2 %	23°C/24 hr; ASTM D570
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D786
Tensile Strength, Yield	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Yield Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	ASTM D790
Izod Impact, Notched	9.00 J/cm	16.9 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.20 mm	NB @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 μm/m-°C @Temperature 20.0 °C	41.7 μin/in-°F @Temperature 68.0 °F	ASTM D696
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	260 °C	500 °F	ASTM D2133
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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