

## Shinil Chemical SHINSTR A PP (SM400) Structural Polymer Household

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

SHINSTR A is the product line of structural polymer compound which exhibits excellent physical, mechanical, and thermal properties. Shinil uses the state-of-the-art dispersion and blending technology with a variety of polymers to produce high performance SHINSTR A compound. SHINSTR A compounds are designed by alloying engineering thermoplastics or mineral reinforcing or fiber reinforcing or hybrid filler reinforcing. SHINSTR A are tailored to control the mechanical and physical properties according to its application or customer demand. SHINSTR A are often used to replace metal parts.

**Feature and Benefits**  
 Excellent impact resistance  
 High scratch resistance  
 Outstanding abrasion resistance  
 Excellent chemical resistance  
 Excellent mechanical properties  
 Improved thermal properties  
 Easy processing  
 Lighter weight  
 Cost effective

Information Provided by Shinil Chemical Industry Co., Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Shinil-Chemical-SHINSTR A-PP-SM400-Structural-Polymer-Household.php](http://www.lookpolymers.com/polymer_Shinil-Chemical-SHINSTR A-PP-SM400-Structural-Polymer-Household.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.9 MPa	4200 psi	
Elongation at Break	25 %	25 %	
Flexural Strength	46.107 MPa	6687.3 psi	
Flexural Modulus	3.58 GPa	519 ksi	
Izod Impact, Notched	0.441 J/cm	0.827 ft-lb/in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	138 Å°C	280 Å°F	

Processing Properties	Metric	English	Comments
Processing Temperature	220 Å°C	428 Å°F	

## Contact Songhan Plastic Technology Co.,Ltd.

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