

## Solvay TECHNYLÂ® A 402 Natural FA PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Description: Unreinforced polyamide PA66, very high viscosity, for extrusion. Available in: Europe and North America  
 Product Applications: TECHNYLÂ® A 402 NATURAL FA offers three main advantages: high impact resistance at low humidity levels, good rigidity, and excellent compression resistance. This grade is particularly suitable for the molding of plastic insulators for railway binding and for extrusion of plates and profiles. Suitable for food contact applications (films, packaging, etc.). This product is available in natural. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-TECHNYL-A-402-Natural-FA-PA66-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-402-Natural-FA-PA66-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	1.5 % @Temperature 23.0 Â°C, Time 86400 sec	1.5 % @Temperature 73.4 Â°F, Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527 Type 1A
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527 type 1 A
Elongation at Break	60 %	60 %	ISO 527 Type 1A
Elongation at Yield	8.0 %	8.0 %	ISO 527 type 1 A
Tensile Modulus	3.10 GPa	450 ksi	ISO 527 Type 1A
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 180/1eA
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 23.0 - 85.0 $\text{Å}^\circ\text{C}$	38.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 73.4 - 185 $\text{Å}^\circ\text{F}$	ISO 11359
Melting Point	263 $\text{Å}^\circ\text{C}$	505 $\text{Å}^\circ\text{F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	75.0 $\text{Å}^\circ\text{C}$	167 $\text{Å}^\circ\text{F}$	ISO 75/Af
Oxygen Index	27 %	27 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	27.0 kV/mm	686 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	240 - 250 $\text{Å}^\circ\text{C}$	464 - 482 $\text{Å}^\circ\text{F}$	
Front Barrel Temperature	240 - 260 $\text{Å}^\circ\text{C}$	464 - 500 $\text{Å}^\circ\text{F}$	
Drying Temperature	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	
Moisture Content	$\leq 0.10$ %	$\leq 0.10$ %	

Descriptive Properties	Value	Comments
Compression Zone	240-260 $\text{Å}^\circ\text{C}$	
Draw-plate temperatures	260-270 $\text{Å}^\circ\text{C}$	

## Contact Songhan Plastic Technology Co.,Ltd.

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