

## Solvay TECHNYLÂ® A 402H1 Natural PA66, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Description: TECHNYLÂ® A 402H1 is an unreinforced polyamide 66, very high viscosity, heat stabilized, for extrusion and injection molding. This product is available in natural color. Benefits: The product offers three main advantages: high impact resistance at low humidity levels, good rigidity, and excellent compression resistance. Available in: Asia Pacific, Europe and North America Regulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/EC. This grade complies with RoHS directive 2002/95/EC. Unless specified, this grade is not suitable for food contact, medical devices or toy applications. Applications: This grade is particularly suitable for the extrusion of window profiles or semi-finished products, and for the injection molding of plastic insulators for railway binding. 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-402H1-Natural-PA66-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-402H1-Natural-PA66-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/inÂ³	ISO 1183/A
Water Absorption	1.5 %	1.5 %	ISO 62
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
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 Stress	30.0 MPa	4350 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	55.0 MPa	7980 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	70.0 MPa	10200 psi	
	@Strain 3.00 %	@Strain 3.00 %	
	78.0 MPa	11300 psi	
	@Strain 4.00 %	@Strain 4.00 %	
Tensile Strength, Yield	80.0 MPa	11600 psi	ISO 527 type 1 A

Elongation at Break Mechanical Properties	60 % Metric	60 % English	ISO 527 Type 1A Comments
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	140 MPa	20300 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 Åµm/m-Å°C @Temperature 23.0 - 85.0 Å°C	38.9 Åµin/in-Å°F @Temperature 73.4 - 185 Å°F	ISO 11359
Melting Point	263 Å°C	505 Å°F	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C	167 Å°F	ISO 75/Åf
Oxygen Index	27 %	27 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 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	475 V	475 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Å°C	500 - 518 Å°F	
Front Barrel Temperature	280 - 290 Å°C	536 - 554 Å°F	
Die Temperature	280 - 290 Å°C	536 - 554 Å°F	
Drying Temperature	80.0 Å°C @Time 28800 sec	176 Å°F @Time 8.00 hour	dew point -35Å°C

Moisture Content Processing Properties	$\leq 0.20\%$ Metric	$\leq 0.20\%$ English	Comments
Descriptive Properties	Value		Comments
Compression Zone	270-280°C		

## Contact Songhan Plastic Technology Co.,Ltd.

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