

## Solvay TECHNYL® A 20 V25 PA66, 25% glass fiber, DRY

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber Filled

### Material Notes:

Description: TECHNYL® A 20 V25 is a 25% glass fiber reinforced Red Phosphorous flame retarded grade based on a polyamide 66 resin. This product is heat stabilised for optimised injection moulding. This product is available in Natural & Black. Key Properties: UL94 V0 at 0.8mm and Excellent filling qualities Benefits: This Red Phosphorous flame retardent grade provides robust UL 94 V-0 and a full UL yellow card while offering good mechanical properties. This grade is suitable for moulding insulating parts for electrical devices, and more generally for thin parts under stress. Available in: Asia Pacific, Europe, Latin America and North America Regulations compliance: Grades produced or imported in Europe comply with directive 453/2010/EC, which amends REACH directive 1907/2006/E.C. 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: Industrial controls and electrical insulation system 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-20-V25-PA66-25-glass-fiber-DRY.php](http://www.lookpolymers.com/polymer_Solvay-TECHNYL-A-20-V25-PA66-25-glass-fiber-DRY.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ISO 1183/A
Water Absorption	0.75 %	0.75 %	ISO 62
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Viscosity	110 cP	110 cP	
	@Shear Rate 1000 1/s, Temperature 300 °C	@Shear Rate 1000 1/s, Temperature 572 °F	
	200 cP	200 cP	
	@Shear Rate 1000 1/s, Temperature 280 °C	@Shear Rate 1000 1/s, Temperature 536 °F	
	200 cP	200 cP	
	@Shear Rate 100 1/s, Temperature 300 °C	@Shear Rate 100 1/s, Temperature 572 °F	
	300 cP	300 cP	
	@Shear Rate 100 1/s, Temperature 280 °C	@Shear Rate 100 1/s, Temperature 536 °F	
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	Isotropy
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527 Type 1A
Tensile Stress	30.0 MPa	4350 psi	
	@Strain 0.500 %	@Strain 0.500 %	
	95.0 MPa	13800 psi	
	@Strain 1.00 %	@Strain 1.00 %	
	130 MPa	18900 psi	
	@Strain 1.50 %	@Strain 1.50 %	
Tensile Stress	150 MPa	21800 psi	
	@Strain 2.00 %	@Strain 2.00 %	
	170 MPa	24700 psi	
@Strain 2.50 %	@Strain 2.50 %		
Elongation at Break	2.0 %	2.0 %	ISO 527 Type 1A
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527 Type 1A
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	5.40 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 23.0 - 85.0 $\text{°C}$	@Temperature 73.4 - 185 $\text{°F}$	ISO 11359
Melting Point	263 $\text{°C}$	505 $\text{°F}$	ISO 11357
Deflection Temperature at 1.8 MPa (264 psi)	250 $\text{°C}$	482 $\text{°F}$	ISO 75/Af
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	ISO 1210
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	ISO 1210

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	
Oxygen Index	30.5 %	30.5 %	ISO 4589
Glow Wire Test	725 °C	1340 °F	Ignition Temperature; ISO 60695-2-13
	960 °C	1760 °F	ISO 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243
Dissipation Factor	0.020	0.020	IEC 60250
Comparative Tracking Index	250 V	250 V	Solution B; IEC 60112
	300 V	300 V	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Feed Temperature	270 - 275 °C	518 - 527 °F	
Mold Temperature	70.0 - 100 °C	158 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	

Descriptive Properties	Value	Comments
Compression Zone	275-280°C	
Fire and smoke F index	I3/F3	NF F 16 101
Mixing Zone	280-285°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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