

TECHNYL® A 402H1 NATURAL

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYL® A 402H1 Natural is an unreinforced polyamide 66, very high viscosity, heat stabilized, for extrusion and injection moulding. This product is available in natural color.

General Information				
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Viscosity		
		Ultra High Impact Resistance		
Agency Ratings		UU 453/2010/EC		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Extrusion		
		Injection Molding		
Part Marking Code (ISO 11469)		>PA66<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	1.9	--	%	
Flow	1.9	--	%	
Water Absorption (Saturation, 23°C)	1.5	--	%	ISO 62
Molding Shrinkage Isotropy	1.00	--		Internal Method
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1300	MPa	ISO 527-2/1A
Tensile Stress				ISO 527-2/1A
Yield	80.0	60.0	MPa	
Break	60.0	--	MPa	
Tensile Strain				ISO 527-2/1A
Yield	8.0	30	%	
Break	60	250	%	
Flexural Modulus	2800	1300	MPa	ISO 178
Flexural Stress	140	75.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	7.0	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact Strength (23°C)	6.0	35	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/Af
Melting Temperature	263	--	°C	ISO 11357-3
CLTE - Transverse (23 to 85°C)	7.0E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+12	ohms·cm	IEC 60093
Electric Strength	27	26	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.10		IEC 60250
Comparative Tracking Index (Solution A)	475	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Oxygen Index	27	--	%	ISO 4589-2
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	8.0		hr	
Suggested Max Moisture	0.20		%	
Cylinder Zone 1 Temp.	260 to 270		°C	
Cylinder Zone 3 Temp.	270 to 280		°C	
Cylinder Zone 5 Temp.	280 to 290		°C	
Die Temperature	280 to 290		°C	

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