

TORZEN® HV80A NC01

Polyamide 66
INVISTA Engineering Polymers

Message:

TORZEN® HV80A NC01 is a medium viscosity PA66 resin for extrusion, injection molding, and compounding applications. It is non-lubricated. Available in natural and black.

General Information			
Features	Workability, good		
	Medium viscosity		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Natural color		
Processing Method	Composite		
	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow: 2.00mm	1.5	%	ISO 294-4
Flow: 2.00mm	1.4	%	ISO 294-4
Viscosity Number (H2SO4 (Sulphuric Acid))	190	cm ³ /g	ISO 307
Relative Viscosity			
at 1% in sulfuric acid, nominal	3		
in formic acid, nominal	80		ASTM D789

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2950	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2
Yield	4.2	%	ISO 527-2
Fracture	45	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress	90.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	2.2	kJ/m ²	ISO 179

23°C	4.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	100	kJ/m ²	ISO 179
23°C	No Break		ISO 179
Notched Izod Impact (23°C)	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	262	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (2.00 mm)	1.0E+10	ohms·cm	IEC 60093
Dielectric Strength (1.00 mm)	10	kV/mm	IEC 60243-1
Comparative Tracking Index (3.00 mm)	> 600	V	ASTM D3638
Injection	Nominal Value	Unit	
Drying Temperature	90	°C	
Drying Time	3.0 - 4.0	hr	
Suggested Max Moisture	0.040 - 0.10	%	
Rear Temperature	250 - 270	°C	
Middle Temperature	270 - 290	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	50 - 90	°C	
Back Pressure	0.200 - 1.00	MPa	
Screw Speed	75 - 180	rpm	
Cushion	4.00 - 6.00	mm	
Vent Depth	7.0E-3 - 0.040	mm	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT