

CONSISTENT QUALITY. GLOBAL SUPPLY.



Compounding Feedstock PA66 Resins

INVISTA's compounding feedstock PA66 resins feature consistent quality while delivering the toughness, chemical resistance and long-term heat resistance for which PA66 is known. With local supply in North America, Europe, and Asia, these resins are an ideal solution for compounders in all regions. The portfolio includes quality products for a broad range of sectors including automotive, electrical/electronics, industrial, and consumer markets.

LOW VISCOSITY RESINS

ADVANTAGES

- High flow
- Allows high loading of fillers
- Beneficial for shear sensitive additives

INVISTA PRODUCTS

- PA66 U3501
- PA66 U3602

MEDIUM VISCOSITY RESINS

ADVANTAGES

- General purpose
- Good flow
- Balanced molecular weight

INVISTA PRODUCTS

- PA66 U4800
- PA66 U4801
- PA66 U4803

HIGH VISCOSITY RESINS

ADVANTAGES

- High molecular weight
- High melt strength
- Durability

INVISTA PRODUCTS

- PA66 HV80A
- PA66 HV125A
- PA66 HV240A

Summary of physical, mechanical, and thermal properties

INVISTA PA66 Feedstock Products											
	Property	Unit	Method	U3501	U3602	U4800	U4801	U4803	HV80A	HV125A	HV240A
Physical	RV in formic acid, nominal	–	ASTM D789	35	36	48	48	48	80	125	240
	RV at 1% in sulfuric acid, nominal	–	–	2.4	2.4	2.7	2.7	2.7	3.2	3.7	4.6
	VN in sulfuric acid, nominal	mL/g	ISO 307	126	128	150	150	150	195	235	300
	Moisture maximum, as packaged	wt%	ISO 15512	0.50	0.25	0.20	0.50	0.50	0.08	0.06	0.06
	Density	g/cm ³	ISO 1183	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Mechanical	Tensile strength at yield	MPa	ISO 527	82	82	82	82	84	84	86	84
	Elongation at yield	%	ISO 527	3.9	4.4	4.2	4.4	4.5	4.4	4.4	4.2
	Elongation at break	%	ISO 527	45	35	40	50	50	45	40	50
	Tensile modulus	MPa	ISO 527	3000	2950	3100	2800	2900	2950	3100	3150
	Notched Charpy at 23°C	kJ/m ²	ISO 179	4.7	5.1	5.4	4.6	4.7	6.6	5.5	5.7
	Notched Charpy at -30°C	kJ/m ²	ISO 179	4.5	4.7	4.2	3.9	4.6	5.7	6.4	6.4
	Unnotched Charpy at 23°C	kJ/m ²	ISO 179	NB	NB	NB	NB	NB	NB	NB	NB
	Unnotched Charpy at -30°C	kJ/m ²	ISO 179	NB	NB	NB	NB	NB	NB	NB	NB
Thermal	Notched Izod at 23°C	kJ/m ²	ISO 180	4.8	4.0	4.7	5.0	5.0	5.0	4.9	5.5
	Melting temperature	°C	ISO 11357	264	262	261	261	263	262	263	262
	HDT at 0.45 MPa	°C	ISO 75	199	197	200	192	205	182	202	206
	HDT at 1.80 MPa	°C	ISO 75	69	69	72	71	73	64	68	72

ABOUT INVISTA

The Compounding Feedstock line of PA66 resins was developed by INVISTA, the world's largest integrated producer of PA66 polymer and intermediates*. INVISTA provides customers with flexible solutions, from technical support during product validation to new application development.

*According to 2016 PCI Nylon Yellowbook.

INVISTA Compounding Feedstock PA66 resins are available for sampling and qualification.

Contact us today at NISP@INVISTA.COM or nylonpolymer.invista.com to learn how INVISTA can support your material needs.

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