

Ultramid® A27 AE1 G

® = registered trademark of BASF SE

Ultramid® A27 AE1 G, the high performance Polyamide 6.6 Polymer for engineering plastics applications.

Production Site	Freiburg, Germany		
Identification	CAS N° 32131-17-2		
Specification ⁽¹⁾			
Parameter	Test method	Unit	Value
Relative Viscosity (RV) in 90% formic acid	BASF method P-018		46.7 - 52.6
Moisture content	BASF method P-043	%	max. 0.35
Yellow index on pellets	BASF method P-025		max. 1
Black spots count	BASF method P-057	n°/kg	0
> 1 mm ≤ 1 mm and > 0.3 mm		n°/kg	max. 5
Granulometry	BASF method P-026	g/100 chips	2.75 - 3.25
Indications ⁽²⁾			
Parameter	Test method	Unit	Value
Relative Viscosity (RV) in 96% sulfuric acid	calculated		2.63 - 2.75
Index of Viscosity in 90% formic acid	calculated	ml/g	133 - 143
Index of Viscosity in 96% sulfuric acid	calculated	ml/g	144 - 153
General properties			
Parameter	Test method	Unit	Value
Melting point	According to ISO 3146	°C	265
Solidification temperature		°C	220
Density	According to ISO 1183	g/cm³	1.14
Bulk density		kg/m³	600 - 700
Appearance	Solid, white, quasi cylindrical chips		

⁽¹⁾These measurements appear in the Certificate of Analysis; Our analytical methods are available upon request

⁽²⁾ For reference only, converted values

Supply form and storage	Ultramid® A27 AE1 G is supplied pre-dried in Bulk in tank truck, or dry container with PE Liner. Please contact your Sales Representative for other packaging sizes. The material must be protected against moisture during storage. A storage time of 12 months should not be exceeded. Packaging must be kept closed, stored under cover and sheltered in a dry place. Opened bags should be used up immediately in order to prevent moisture pickup.
Health & safety / transport regulations	The safety data sheet is available upon request.
Quality & S.H.E. certifications	The Quality and Safety Health Environment Management Systems in place in all our organizations are inspected and certified according to recognized standards. Our production sites are also ISO 9001 & some sites ISO 14001 as well. Certificates are available upon request.
Disclaimer	While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by BASF hereunder are provided gratis and BASF assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.
Medical disclaimer	BASF has not developed or tested its plastics especially for the use in medical devices (defined in risk classes I to III according to the European and US Medical Device legislation) and pharmaceutical applications. Therefore BASF makes no warranties, express or implied, concerning the suitability of any BASF plastics for use in any medical device and pharmaceutical applications. BASF does not supply its plastics for the manufacture of implants of any risk class. Please inform us in advance, if you intend to use BASF plastics in medical devices or pharmaceutical applications.

This TDS is also valid for sustainable versions of the product e.g. "Cycled", "ZERO", "BMB", "BMBcert™", "LowPCF", "Renewable", "REDcert²".

Contact: extrusion.ultramid@basf.com

More information? Please visit us at www.monomers.basf.com