

ENGINEERING DATA SHEET

DSM 4.1.61

ASMP

THERMOPLASTIC - Denistat N 35GC 03

1. Definition:

It is the long-chained molecules that define the character of this group. When moulded, this highly ordered molecular structure is anisotropic: shrinking less in the direction of flow vs. transverse to flow. Other features of this aligned structure include a high degree of component flexibility, good chemical & ESC (Environmental Stress Cracking) resistance.

Semi-crystalline materials have a distinctive (known) melting temperature, they do not gradually soften when exposed to increases in temperature, instead they remain solid until a given quantity of heat is absorbed then rapidly change into a low viscous (watery) melt.

2. General:

PA 6 has higher impact strength and slightly better low temperature properties than PA 66. It also has a better resistance to solvents, grease and detergents but a lower resistance to dilute mineral acids. Easier to mould.

PA6 is a strong and tough material that has a high melting temperature and a high modulus of elasticity. It has good wear resistance and low coefficient of friction, making it an excellent choice for use in applications where high strength and low friction are required. It is resistant to a wide range of chemicals, including acids, bases, and organic solvents.

Features:

- Chemical & ESC Resistant.
- Fatigue Resistant & Flexible
- Good For Bearing & Wear.
- Resistant To Bonding with Solvents & Adhesives.
- Distinctive (Known) Melting Temperature.

3. Mechanical Properties:

This material is PA 6 with a 35% mixed carbon and glass fiber.

These values are representative. For critical applications, refer to datasheet.

MECHANICAL PROPERTIES					
MATERIAL:	SURFACE RESISTIVITY:	TENSILE STRENGTH:	ELONGATION BREAK:	TENSILE MODULUS:	DENSITY:
Denistat N 35GC 03	10⁴ Ohm	140 MPa	2.0 %	13000 Mpa	1,36 g/cm³

4. Manufacturers Material Data Sheet:

Please see below attached PDF document of the material data sheet from Vamp Tech S.p.A.



Adobe Acrobat
Document

Issue	01	02	03	04	05	06	07	08
Date	09/07/2024							