

# Mahesh Manglesh Plastics Pvt. Ltd.

Importer, Distributor and Stockists of Engineering Polymer Materials  
PA6, PA66, POM, PBT, TPU, TPE, ABS, PMMA, PC, PA46, PPS, PPA



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## Comparison Between SXXIC BLK & B30S

Property	SXXIC BLACK	Durethan B30S
Type	PA 6, Unreinforced	PA 6, Non-reinforced
Processing	Injection Molding	Injection Molding
Molding Shrinkage (parallel/normal)	1.2% / 1.4%	1.02% / 1.16%
Tensile Modulus(MPa)	2800	3000
Tensile Strength/Stress at Break(MPa)	45 / 75	80 (Yield), 20 (Nominal Strain at Break)
Elongation at Break (%)	10	4 (Yield Strain), 20 (Nominal Strain at Break)
Flexural Modulus(MPa)	2500	2900
Flexural Strength(MPa)	100	110
Charpy Impact Strength - unnotched (23°C)(kJ/m <sup>2</sup> )	300	Not listed (N = No break reported)
Charpy Notched Impact Strength (23°C)(kJ/m <sup>2</sup> )	6	10
Izod Notched Impact Strength (23°C)(kJ/m <sup>2</sup> )	4	10
Melting Temperature (°C)	220	222
Deflection Temp. under Load (1.8 MPa, °C)	55	60
Density (kg/m <sup>3</sup> )	1120	1140
Water Absorption (% at saturation / equilibrium)	Not listed	10 / 3
Vicat Softening Temp. (°C)	not listed	200
UL 94 Flammability	not listed	V-2 (1.5 mm and 0.4 mm)

### Summary :-

- Both materials are standard, unreinforced injection molding grades of PA6 and are functionally similar for typical engineering applications, offering decent balance of stiffness, impact strength, and processability suitable for general-purpose use. [nylon-6-plain-black-sxxic-black.pdf+1](#)
- Differences in some mechanical or impact values may arise from testing conditions, colorants, or slight formulation adjustments, but both datasheets note that values are typical and may vary with color or additives. [LANXESS\\_Durethan\\_B30S\\_000000\\_ISO\\_EN-1.pdf+1](#)
- Specific application suitability, flame rating, or detailed electrical properties should be selected based on the final part's requirements and regulatory compliance needs.

For most engineering uses where standard (non-reinforced) PA6 is acceptable, either of these materials should perform similarly, with minor variations not generally critical to end-use performance.