

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 B30s & M28RC

Property	Durethan B30S (LANXESS)	GUJLON (GSFC, E-35 Grade as Reference)
Material Type	PA 6, non-reinforced	Nylon 6 (Polyamide 6), E-35 grade
Density / Specific Gravity	1.14 kg/m ³	1.12–1.14
Water Absorption (23°C)	3% (equilibrated, 50% RH)	2.5–3%
Tensile Strength (Yield)	80 MPa	725±50 kg/cm ² ≈ 71 MPa
Elongation at Yield	4%	5%
Elongation at Break	20%	260±30%
Flexural Modulus	2900 MPa	21,000–23,000 kg/cm ² (≈ 2100–2300 MPa)
Flexural Strength	110 MPa	925±50 kg/cm ² ≈ 91 MPa
Izod/Charpy Impact (Notched)	<10 kJ/m ²	3.5–5.0 kg·cm/cm (≈ 0.35–0.49 kJ/m)
Hardness (Ball/Rockwell)	140 N/mm ²	RHR 120±5
Melting Temperature	222°C	215±3°C (Vicat Softening)
Deflection Temp (HDT @ 1.80 MPa)	60°C	61±2°C (HDT @ 1.8 MPa)
Vicat Softening Temperature	200°C	215±3°C
Max Usage Temp in Air	Not explicit	80°C
Dielectric Strength	30 kV/mm	26–28 kV/mm

Summary -

- Both materials are nylon-6 engineering plastics suited for injection moulding, and share similar basic properties for specific gravity, water absorption, and thermal resistance.
- Durethan B30S shows slightly higher tensile and flexural modulus, but GUJLON offers substantially higher elongation at break.
- Both have comparable Vicat softening and melting points, suitable for similar thermal applications.
- Electrical insulation levels are similar, as expected for PA6/Nylon

This tabular comparison should help you evaluate their suitability for engineering and manufacturing applications where PA6 is specified.