

APPLICATIONS:



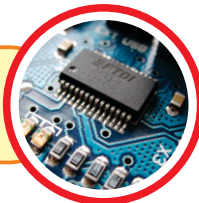
Precision engineering components

Film for packaging of food stuffs & vegetable oils



Monofilaments, rods, pipes extruded profiles and strappings

Components for electrical and electronic industry



Components for appliances and consumer goods

Components for hardware, building and furniture industries



Components for textile machinery, railway, defense and automobile industries

GUJLON



GSFC manufactures Nylon-6 chips, registered under the trade name GUJLON. It has the largest production facility of Nylon-6 in India with a capacity of 25,000 MTPA. The main raw material for Nylon-6 is Caprolactam which is available from captive capacity.

Nylon-6, one of the Engineering Plastic, is tough, lightweight, abrasion resistant, shock resistant, corrosion resistant and heat resistant material with higher melting point, low specific gravity, electrical insulation property and dimensional stability. It also has self lubricating properties and can be machined and finished in ways similar to metals. This versatile plastic is available in extrusion grades, general purpose injection moulding grades, glass fibre reinforced grade and plasticised grade to suit diverse applications.



Packaging:

Available in **25 kg** net sealed bags with LDPE inner lining and BOPP metalised/HDPE laminated outer lining.



Gujarat State Fertilizers & Chemicals Limited

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No.	Property	Unit	Test Method	E-35	E-50	M28RC		M40RC	MF15W	MF3W	GF15H	GF3H	GM 10:20	GF4H	MMS ₁	MST
General Properties																
1	Specific Gravity	-	ASTM D792	1.12-1.14	1.12-1.14	1.12-1.14		1.12-1.14	1.24-1.25	1.34-1.39	1.21-1.26	1.34-1.38	1.38-1.42	1.44-1.47	1.13-1.15	1.09-1.11
2	Water Absorption	%	ASTM D570	2.5-3	2.5-3	2.5-3		2.5-3	2-2.5	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	0.8-1.2	2.5-3	1.4-1.8
Mechanical Properties																
3	Tensile Strength	Yield Kg/cm ²	ASTM D638	725±50	725±50	750±50		750±50	700±50	725±50	1100±100	1550±150	1250±100	1850±150	800±50	550±50
4	Elongation at yield	%	ASTM D638	5	5	5		5	-	-	-	-	-	-	-	-
5	Elongation at break	%	ASTM D638	260±30	250±30	40±20		60±20	25±5	10±5	2.5-5.5	3-5	3-5	3-5	50±10	75±25
6	Flexural Strength	Kg/cm ²	ASTM D790	925±50	925±50	900±100		900±100	950±50	950±50	1450±100	1950±150	1650±150	2300±150	1100±100	700±50
7	Flexural Modulus of Elasticity	Kg/cm ² in 000's	ASTM D790	21-23	21-23	21-23		21-23	19-20	29-30	50-52	63-66	57-60	100-110	34-36	21-23
8	Izod Impact Strength	Kg cm/cm of notch	ASTM D256	3.5-5.0	3-5	3.5-4.5		4.0-5.0	2.5-3.5	2-3	4.5-6.0	9-12	5-7	10-14	3-4	30-50
9	Rockwell Hardness	R H R	ASTM D785	120±5	120±5	120±5		120±5	120±5	120±5	120±5	120±5	120±5	120±5	119±2	110±5
Thermal Properties																
10	Heat Deflection Temp. at 264 psi	°C	ASTM D648	61±2	60±2	62±2		62±2	65±5	90±5	197±5	205±5	195±5	205±5	65±5	60±2
	at 66 psi	°C	ASTM D648	155±5	155±5	165±5		165±5	165±5	185±5	200±5	210±5	215±3	210±5	160±5	150±5
11	Vicat Softening Temp.	°C	ASTM D1525	215±3	215±3	215±3		215±3	215±3	215±3	215±3	215±3	215±3	215±3	215±3	205±3
12	Max. Usage Temp. in Air	°C	-	80	80	80		80	80	80	85	90	90	90	80	80
	In Water	°C	-	70	70	70		70	70	70	75	80	80	80	70	75
	In Oil	°C	-	100	100	100		100	100	100	115	120	120	125	100	100
Electrical Properties																
13	Dielectric Strength	KV/mm	ASTM D149	26-28	26-28	26-28		26-28	22-28	22-28	26-28	26-28	26-28	26-28	22-28	22-24