

<b>NYLON 6</b>					
<b>Manufacturer</b>			<b>GSFC Limited</b>		<b>Synergy Polymers</b>
<b>Property</b>	<b>Test Method</b>	<b>Unit</b>	<b>Gujlon M28RC</b>	<b>Gujlon M28RC 3HGF</b>	<b>SGR30C Black</b>
Specific Gravity	ASTM D792		1.12-1.14	1.33-1.37	1.35-1.37
Relative Viscosity	SOP:43:230		2.4-2.8		
% Moisture	SOP:43:188	%	Max. 0.1	Max. 0.15	Max. 0.2
Water Extraction	SOP:43:270	%	Max. 1.5		
Tensile Strength at Yield	ASTM D638	kg/cm <sup>2</sup>	750 <sub>+50</sub>	1500+150	1500
Elongation at Yield	ASTM D638	%	5	2 to 4	4
Flexural Strength	ASTM D790	kg/cm <sup>2</sup>	900 <sub>+100</sub>	1750+150	2300
Flexural Modulus	ASTM D790	kg/cm <sup>2</sup>	21000-2300	63000-66000	
Izod Impact Strength (notched)	ASTM D256	kg.cm/cm	3.25-4.25	7 to 10	8
Rockwell Hardness	ASTM D785	RHR	120 <sub>+5</sub>	120 <sub>+5</sub>	
Heat Deflection Temperature at 264psi	ASTM D648	°C	60 <sub>+2</sub>	205 <sub>+5</sub>	
Heat Deflection Temperature at 66psi	ASTM D648	°C	165 <sub>+5</sub>	210 <sub>+5</sub>	
VICAT Softening Temperature	ASTM D1525	°C	215 <sub>+3</sub>	215 <sub>+3</sub>	

<b>NYLON 66</b>			
<b>Manufacturer : Invista</b>			
<b>Property</b>	<b>Test Method</b>	<b>Unit</b>	<b>U4820L</b>
Density	ISO 1183	kg/m <sup>3</sup>	1.14
Relative Viscosity	ISO 307		2.7
Water Absorption	ISO-62	%	2.7
Mold Shrinkage(MD)	ISO 294-4	%	1.5
Mold Shrinkage(TD)	ISO 294-4	%	1.8
Water Absorption	ISO 62	%	
Tensile Strength at Yield	ISO 527-2/1A	MPa	82
Elongation at Yield	ISO 527-2/1A	%	4.2
Tensile Modulus	ISO 527-2/1A	MPa	2300
Flexural Strength	ISO 178	MPa	95
Flexural Modulus	ISO 178	MPa	2900
Izod Impact Strength (notched)	ISO 180/1A	KJ/m <sup>2</sup>	5.4
Heat Deflection Temperature at 0.45MPa	ISO 75-1,-2	°C	204
Heat Deflection Temperature at 1.80MPa	ISO 75-1,-2	°C	66
Dielectric Strength	UL 746A	kV/mm	18
Flammability 0.40-3.0mm	UL 94		V-2