



<b>NYLON 66</b>											
	<b>STD</b>	<b>Impact Modified x 1</b>	<b>Impact Modified x 3</b>	<b>Glass 15%</b>	<b>Glass 30%</b>	<b>Glass 50 %</b>	<b>Glass Bead 30%</b>	<b>Impact Modified 15 % Glass Filled</b>	<b>FR STD</b>		<b>What does it mean?</b>
Tensile Strength	80	75	50	125	195	240	80	105	85	MPa	Higher = Stronger
Elongation	25	30	70	4	3.5	3.5	6	6	15	%	Lower = Stronger
Flexural Modulus	2.8	2600	1600	3650	8500	12000	4300	3700	2.8	MPa	Lower = More flexible
Flexural Strength	105	100	65	175	250	300	120	140	100	MPa	Higher = More rigid
Impact Strength Izod Notched	5	8	70	6	14	15	6	13	5	kJ/m2	Higher = Stronger
Melting Point	256	255	255	255	255	255	255	255	255	C	
Moisture Absorption	1.5	1.4	1.7	0.8	0.7	1	0.9	0.7	1.5	%	
Specific Gravity	1.13	1.12	1.09	1.21	1.37	1.51	1.37	1.19	1.13		Higher = Less yeild
Shrinkage	1.5	1.5	1.75	0.45	0.3	0.2	0.010	0.005	1.3	%	Higher = More shrinkage
Flammability	V2	HB	94HB	94HB	94HB	94HB	HB	HB			
Glow Wire	N/A	N/A	N/A	N/A	BS1363	N/A	N/A	N/A	BS1363		
Maximum Service Temp	130c	90c	90c	120c	130c	140c	130c	110c	120c	deg c	Higher = Improved service range

**Service Temperature**

This is a guide only under no strain in air

**Impact Measurements are dry as moulded**

Maximum water absorption up to 10%  
 Water absorption to reach max properties 2-3%  
 Impact on unfilled grades increase by 100%  
 Flexural Modulus on unfilled grades reduces, by 50% as it becomes softer which will reduce Tensile Strength.

**Conditioning Mouldings**

60c until impact is reached  
 Do not boil, a long slower process is more effective.

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