

## TECHNICAL DATA SHEET

### PA6-S2700 –(POLYAMIDE 6 GRADE OF LOW VISCOSITY)

#### **Product Description**

Also known as Nylon 6, has high tensile strength and elasticity, and is very resistant to abrasion and chemicals. Its design flexibility and light weight make it extremely useful in a broad range of applications, from engineering plastic, food packaging and textiles, to car parts such as door handles, radiator grilles and electrical components such as circuit breakers and cable protection.

#### **Applications:**

- Engineering Plastics

#### **Origin:** SAUDI

- PETRO RABIGH

<b>Optical Property</b>	<b>Test Method</b>	<b>Units</b>	<b>Values</b>
<b><u>Properties</u></b>			
Relative Viscosity	ISO 307	-	2.7
Water Content	ISO 15512	wt%	<0.06
Extractable Content	ISO 6427	Wt%	<0.06
Diameter of Chip	-	mm	2.0 – 2.5
Weight of Chip	-	g/100pc	0.88 – 0.98
Density	ASTM D792	g/cm <sup>3</sup>	1.13
Moisture Absorption (50% RH)	ASTM D570	%	4.8
<b><u>Mechanical Properties</u></b>			
Tensile Yield Strength	ASTM D638	MPa	65
Elongation at break	ASTM D638	%	180
Flexural Strength	ASTM D790	MPa	54
Flexural Modulus	ASTM D790	MPa	1114
Izod Impact Strength (notched 25°C)	ASTM D256	J/m	28
Hardness	ASTM D2240	Shore D	68
<b><u>Thermal Properties</u></b>			
Temp of Deflection	ASTM D648	°c	50
Melting Point	DSC	°c	222
Melt Index (270°C, 1.2Kg)	-	g/10min	26.0
UL Flammability	UL94/1.6mm	-	V2

#### ➤ **Storage and handling:**

Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Store in a cool, dry place. Protect it from moisture absorption and contamination.