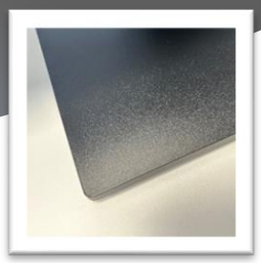
Nylatron® 66 SA FR
Plastic Sheet



Nylatron® 66 SA FR Flame Retardant Nylon that was developed to fulfil the requirements as set out in the test program conducted on plastic material to measure flammability characteristics. Nylatron® 66 determines the material's tendency either to extinguish or to spread the flame once the specimen has been ignited.

Features

- The Surface Resistivity of this material is $10^{14}\Omega$
- The Melting Temperature of this material is 264°C
- The Rockwell Hardness of this material is M 87

Benefits and Applications

- High Mechanical Strength
- Heat and Wear Resistance
- Good Mechanical Damping

Availability

- Available in thicknesses from 10mm thick
- Sheet sizes are 100cm x 61cm

Applications

- Packaging
- Appliances
- Automotive
- Industrial
- Irrigation

Physical Properties

Property (unit)	Test Method	Nylatron
Colour	-	Black
Density (g/cm³)	ISO 1183-1	1.16
Melting Temperature - DSC, 10°C/min (°C)	ISO 11357-1/-3	264
Coefficient of Linear Thermal Expansion (m/(m.k)): - average value between 23 and 60°C - average value between 23 and 100°C	 - -	 80 x 10-6 -
Temperature of Deflection under load (°C): - method A: 1.8MPa	ISO 75-1/-2	100
Flammability (%): - "Oxygen Index" - according to UL 94 (3 / 6 mm thickness)	ISO 4589-1/-2 -	 - V-0

Mechanical Properties

Property (unit)	Test Method	Nylatron
Tension Test: - tensile stress at yield / tensile stress at break (MPa) - tensile strength (MPa) - tensile strain at yield (%) - tensile strength at break (%) - tensile modulus of elasticity (MPa)	- ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2	- 79 / - 79 6.6 9 3900
Compression Test: - compressive stress at 1 / 2 / 5% nominal strain (MPa)	ISO 604	35 / 65 / 98
Charpy Impact Strength – Unnotched (KJ/m²)	ISO 179-1/1eU	50
Charpy Impact Strength – Notched (KJ/m²)	ISO 179-1/1eA	3
Ball Indentation Hardness (N/mm²)	ISO 2039-1	195
Rockwell Hardness	ISO 2039-2	M87
Surface Resistivity (Ohm)	IEC 60093	> 10^{14}

UNIVERSAL SCIENCE
COOLING ELECTRONICS BY DESIGN
www.universal-science.com
UK +44 (0) 1908 222 211

This material is often used in these industries:

Industrial | LED | Automotive | PSU

Information furnished by Universal Science regarding technical data is believed to be accurate and reliable, but our customers bear the responsibility in assessing fitness for purpose. Universal Science makes no warranties as to the fitness, merchantability or suitability of any materials or products for any uses. Universal Science shall not be liable for damages of any kind. Universal Science terms and conditions of sale apply.