

# FORMPOLY® NYLON12

## 1. GENERAL INFORMATION

Polyamide 12 has the lowest amide group concentration of all commercially available polyamides thereby substantially promoting its characteristics.

Polyamide 12 offers lowest specific weight compared to the other popular Polyamides.

Polyamide 12 offers lowest water absorption of all commercially available polyamides thereby sustaining excellent dimensional stability under conditions of changing humidity.

Combination of superior properties and process ability provide the designer and processor with a unique material in applications which require

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>■ Exceptional Impact strength</li><li>■ High impact at temperatures well below freezing point.</li><li>■ Excellent abrasion resistance</li><li>■ Good fatigue behaviour</li></ul> | <ul style="list-style-type: none"><li>■ Good Chemical Resistance</li><li>■ High resistance to stress cracking</li><li>■ Noise and damping properties.</li><li>■ Easy processability</li></ul> |
|---|---|

## 2. FORMPOLY® N12FX35 PROPERTIES

Property	ASTM Method	Unit	N12FX35
Tensile Strength	D638	MPa	Min 28
Izod impact Strength-Notched	D256	kg.cm/ cm	30
Hardness	D2240	Shore-D	58
Specific Gravity	D792	-	1.01
Moisture absorption after 24 hours	D570	%	0.1
Moisture absorption at Saturation	D570	%	0.7
Tensile Modulus	D638	MPa	Min 300
Elongation at Break	D638	%	200

Conditioned test specimen. All results are measured under Dry-as-moulded natural test specimen  
Coloured grades would record slightly lower mechanical properties as permitted by ASTM D-4066

The information present here is for general guidance. It is given in good faith but no warrant is attached

## FORMULATED POLYMERS LIMITED

Manufacturers of Engineering Plastics Compounds

Ph: +91-44-26811236,7:: Fax:2681 1275 E Mail: info@formulatedpolymers.com

URL: [www.formulatedpolymers.com](http://www.formulatedpolymers.com)

HO & Works: 59, SIDCO Industrial Estate, Thirumazhisai, Chennai - 600 124 India.

ISO 9001:2015, IATF 16949: 2009 & ISO 14001: 2015 Certified Firm

