FORMPOLY®NYLON12

GENERAL

FPL offers a wide range of Nylon12 grades from unfilled to glass fibre reinforced, including FORMPOLY® N12GP30M which is unfilled Nylon 12 with good modulus and moderate mechanical properties.

FORMPOLY® N12GP30M

Higher Impact resistance
Reduced sensitivity to notch
Good finish and Gloss
Easy flow and fast solidification
High elongation
Low density
Excellent abrasion resistance
Good fatigue behaviour
High resistance to stress cracking

PACKING

FORMPOLY® N12GP30M is supplied in 25 Kgs. dry, ready to mould, in sealed bags to prevent the uptake of moisture.

APPLICATION

OFC Sheathing
Pneumatic tubing
Air break tubing
Cable sheathing
Noiseless Gear/clips
Heater Wire insulation

Property	ASTM	Unit	N12GP30M
Topoile Ctues ath at Viola	Method	MDa	40
Tensile Strength at Yield	D638	MPa	40
Tensile Strength at Yield after aging in Oil	D638	MPa	37
Elongation at Break	D638	%	300
Elongation at Break after aging in Oil	D638	%	260
Tensile Modulus	D638	MPa	1000
Flexural Strength	D790	MPa	50
Izod impact Strength at 23°C	D256	kg.cm/cm	NB
Izod impact Strength at -40°C	D256	kg.cm/cm	NB
Izod impact Strength-Notched at 23°C	D256	kg.cm/cm	10
Izod impact Strength-Notched at -40°C	D256	kg.cm/cm	7
Hardness	D2240	Shore D	75
Specific Gravity	D792	-	1.02
Moisture absorption after 24	D570	%	0.1
hours			
Moisture absorption at Saturation	D570	%	0.6
Flammability	UL94	-	НВ
Melting Point	D3418	°C	185

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





PROCESSING OF FORMPOLY NYLON 12

FORMPOLY® grades can be processed in extruders with min L/D of 24 with compression ratio of 3.0 to 3.5. Material can be processed with zone temperature from 230 C to 210.

PRE-DRYING

FPL grades can normally be taken for direct processing. However, in case the material is exposed to atmosphere, it is advisable to pre-dry the material at 80°C for 2 to 3 hours for good surface finish.

PROCESS PARAMETERS SUGGESTED

PROCESSING PARAMETERS		
ZONEI	190 -200°c	
ZONE2	190-200°c	
ZONE3	190 -200°c	
ZONE4	200-215°c	
Flange 1	200-215°c	
Flange 2	200-215°c	
Die	215-230°c	
Vacuum	0.1-0.2 bar	
Water Temperature	15° c- 25° c	

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

