

Cresset Powers Cress-Alon™ NF3020 2% Nano Clay Loaded, 3.0 r.v. Film Grade Nylon 6, 50% RH

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6

Material Notes:

Low density, high rigidity, high heat distortion temperature, high retention of mechanical properties under humid conditions, flame retardant, recyclable and environmentally friendly, less glass fiber required to achieve same properties as non-nano nylon, low opacifying property, excellent surface smoothness and glossiness, low water absorption, excellent moldability, high crystallinity, good dimensional stability, good barrier properties to gas, solvent, and UV, high resistance to oil, greases, hydrocarbons, and chemicals, and may help flame retardant properties with anti-dripping. Information provided by Cresset Powers Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cresset-Powers-Cress-Alon-NF3020-2-Nano-Clay-Loaded-30-rv-Film-Grade-Nylon-6-50-RH.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Viscosity Measurement	3.0	3.0	Relative Viscosity
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 230 °C	14 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Elongation at Yield	3.9 %	3.9 %	ASTM D638
Flexural Yield Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	3.00 GPa	435 ksi	ASTM D790
Izod Impact, Notched	0.280 J/cm	0.525 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	221 °C	430 °F	ASTM DSC

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