

Nyco NYGLOS® 4W ST0105 Wollastonite in Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Data for polypropylene reinforced with 15% Nyco NYGLOS® 4W ST0105 Wollastonite. Polypropylene used is Braskem TI6200Q High Impact Copolymer 20 MFR -NBWollastonite (calcium metasilicate, or CaSiO₃) is a naturally occurring white, non-metallic mineral with an acicular or needle-shaped crystal structure. This distinctive property makes wollastonite an ideal performance mineral for a broad range of industrial and consumer applications. Information provided by NYCO Minerals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Nyco-NYGLOS-4W-ST0105-Wollastonite-in-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Filler Content	15 %	15 %	ISO 34351
Moisture Absorption	0.00200 %	0.00200 %	
Linear Mold Shrinkage	0.011 cm/cm	0.011 in/in	Average
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 230 °C	14 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	20.0 MPa	2900 psi	50 mm/min - CH; ISO 527
Elongation at Break	130 %	130 %	50 mm/min - CH; ISO 527
Flexural Strength	27.0 MPa	3920 psi	2 mm/min; ISO 178
Flexural Modulus	2.015 GPa	292.3 ksi	2 mm/min; ISO 178
Charpy Impact, Notched	0.450 J/cm ² @Temperature -30.0 °C	2.14 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	4.60 J/cm ² @Temperature 23.0 °C	21.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
	66.0 µm/m-°C	36.7 µin/in-°F	

CTE, linear, Parallel to Flow Thermal Properties	Metric @ Temperature -30.0 - 120 °C	English @ Temperature -22.0 - 248 °F	ISO 11359 Comments
CTE, linear, Transverse to Flow	64.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -30.0 - 120 °C	35.6 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -22.0 - 248 °F	ISO 11359
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ISO 75

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