Washington Penn Medium Impact Copolymer 50% Talc Filled

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Talc-filled polypropylene compounds have been tailored specifically to meet the requirements of each of the major automobile producers. Grades are available to meet FDA food and drug packaging requirements. These products have excellent mold detail and surface reproduction with fast set-up times. They are also available in an array of colors.Information provided by Washington Penn Plastic Co.

Order this product through the following link: http://www.lookpolymers.com/polymer_Washington-Penn-Medium-Impact-Copolymer-50-Talc-Filled.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in³	ASTM D792
Filler Content	50 %	50 %	

Tensile Strength, Yield23.8 MPa3450 psiASTM D638Elongation at Break8.0 %8.0 %ASTM D638Elongation at Yield4.0 %4.0 %ASTM D638Flexural Modulus3.10 GPa450 ksi1% Secant; ASTM D790Lood Impact, Notched0.427 J/cm0.800 ft-lb/nASTM D256Gardner Impact0.904 J0.667 ft-lbASTM D5420@Temperature 23.0 °C675 ft-lbASTM D5420@Temperature 23.0 °C0.000 ft-lb/nASTM D5420	Mechanical Properties	Metric	English	Comments	
Elongation at Yield4.0 %ASTM D638Flexural Modulus3.10 GPa450 ksi1% Secant; ASTM D7904.27 GPa620 ksiTangent; ASTM D790Izod Impact, Notched0.427 J/cm0.800 ft-lb/inASTM D256Gardner Impact0.904 J0.667 ft-lbASTM D5420©Temperature -30.0 °C@Temperature -22.0 °FASTM D5420	Tensile Strength, Yield	23.8 MPa	3450 psi	ASTM D638	
Flexural Modulus3.10 GPa450 ksi1% Secant; ASTM D790Izod Impact, Notched0.427 J/cm620 ksiTangent; ASTM D790Izod Impact, Notched0.427 J/cm0.800 ft-lb/inASTM D2560.904 J0.667 ft-lbASTM D5420@Temperature -30.0 °C@Temperature -22.0 °F6.33 J4.67 ft-lbASTM D5420	Elongation at Break	8.0 %	8.0 %	ASTM D638	
HerdelineAverageAverageAverage4.27 GPa620 ksiTangent; ASTM D790Izod Impact, Notched0.427 J/cm0.800 ft-lb/inASTM D2560.904 J0.667 ft-lb0.667 ft-lbASTM D5420@Temperature -30.0 °C@Temperature -22.0 °FASTM D54206.33 J4.67 ft-lbASTM D5420	Elongation at Yield	4.0 %	4.0 %	ASTM D638	
Izod Impact, Notched0.427 J/cm0.800 ft-lb/inASTM D256Gardner Impact0.904 J0.667 ft-lbASTM D5420@Temperature -30.0 °C@Temperature -22.0 °FASTM D54206.33 J4.67 ft-lbASTM D5420	Flexural Modulus	3.10 GPa	450 ksi	1% Secant; ASTM D790	
Gardner Impact 0.904 J 0.667 ft-lb @Temperature -30.0 °C @Temperature -22.0 °F 6.33 J 4.67 ft-lb		4.27 GPa	620 ksi	Tangent; ASTM D790	
Gardner Impact @Temperature -30.0 °C @Temperature -22.0 °F ASTM D5420 6.33 J 4.67 ft-lb ASTM D5420	Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	ASTM D256	
@Temperature -30.0 °C @Temperature -22.0 °F 6.33 J 4.67 ft-lb ASTM D5420	Cordnor Import	0.904 J	0.667 ft-lb	ASTM DE 420	
ASTM D5420	Gardner impact	@Temperature -30.0 °C	@Temperature -22.0 °F	A31111 D3420	
		6.33 J	4.67 ft-lb	ASTM D5420	
		@Temperature 23.0 °C	@Temperature 73.4 °F		

Thermal Properties	Metric	English	Comments	
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	ASTM D648	

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