

Asahi Kasei Thermofil P-40TC-5100 40% Talc Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Talc Filler

Material Notes:

Information provided by Asahi Thermofil

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Thermofil-P-40TC-5100-40-Talc-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Strength	51.7 MPa	7500 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.14 J/cm	4.00 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	43.2 $\mu\text{m/m}\cdot^\circ\text{C}$	24.0 $\mu\text{in/in}\cdot^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	132 $^\circ\text{C}$	270 $^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	87.8 $^\circ\text{C}$	190 $^\circ\text{F}$	ASTM D648

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