

Fiberfil® PP-60/TC/24/D/HS Polypropylene Homopolymer, Talc Filled, Heat Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by FIBERFIL Engineered Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fiberfil-PP-60TC24DHS-Polypropylene-Homopolymer-Talc-Filled-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Water Absorption	0.030 %	0.030 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0090 - 0.010 cm/cm	0.0090 - 0.010 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.011 - 0.012 cm/cm	0.011 - 0.012 in/in	ASTM D955
	@Thickness 6.35 mm	@Thickness 0.250 in	
Melt Flow	12 g/10 min	12 g/10 min	230/2.16 (typical); ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	3.00 GPa	435 ksi	ASTM D638
Flexural Strength	53.1 MPa	7700 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	75.0 Å°C	167 Å°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	199 - 210 Å°C	390 - 410 Å°F	
Middle Barrel Temperature	204 - 227 Å°C	400 - 440 Å°F	

Front Barrel Temperature Processing Properties	182 - 199 Å°C Metric	360 - 390 Å°F English	Comments
Nozzle Temperature	182 - 193 Å°C	360 - 380 Å°F	
Melt Temperature	199 - 232 Å°C	390 - 450 Å°F	
Mold Temperature	32.2 - 71.1 Å°C	90.0 - 160 Å°F	
Drying Temperature	76.7 Å°C	170 Å°F	Drying not normally required
Dry Time	2 hour	2 hour	Drying not normally required
Moisture Content	<= 0.20 %	<= 0.20 %	recommended for molding
Back Pressure	0.000 - 0.689 MPa	0.000 - 100 psi	

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