

Fiberfil® PP-60/VO Polypropylene Homopolymer, Flame Retardant, UL94 V0

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-60VO-Polypropylene-Homopolymer-Flame-Retardant-UL94-V0.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Water Absorption	0.020 %	0.020 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.020 - 0.024 cm/cm	0.020 - 0.024 in/in	ASTM D955
	@Thickness 6.35 mm	@Thickness 0.250 in	
Melt Flow	15 - 20 g/10 min	15 - 20 g/10 min	230/2.16 (typical); ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90 - 95	90 - 95	ASTM D785
Tensile Strength, Yield	35.9 MPa	5200 psi	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	ASTM D638
Flexural Strength	44.8 MPa	6500 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 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 0.46 MPa (66 psi)	82.2 Â°C	180 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	71.1 Â°C	160 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	182 - 199 Â°C	360 - 390 Â°F	
Middle Barrel Temperature	193 - 210 Â°C	380 - 410 Â°F	
Front Barrel Temperature	188 - 204 Â°C	370 - 400 Â°F	
Nozzle Temperature	182 - 193 Â°C	360 - 380 Â°F	
Melt Temperature	193 - 216 Â°C	380 - 420 Â°F	
Mold Temperature	32.2 - 71.1 Â°C	90.0 - 160 Â°F	
Drying Temperature	76.7 Â°C	170 Â°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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