

S&E Specialty Polymers TuffFill™ 5000-SN4 PP, Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Application: A No Bloom, UL 94 V-0 Polypropylene Compound TuffFill™ 5000SN series is a specially engineered, low bloom, flame retardant polypropylene compound designed with halogen based technology. TuffFill™ 5000SN series exhibits a balance of high flexural modulus and good impact. It is designed for extrusion applications. Information provided by S&E Specialty Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_SE-Specialty-Polymers-TuffFill-5000-SN4-PP-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	>= 29.6 MPa	>= 4300 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	Ultimate; ASTM D638
Flexural Modulus	3.59 GPa	521 ksi	tangent; ASTM D790
Flexural Modulus, 1% Secant	2830 MPa	410000 psi	ASTM D790
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	ASTM D256
Dart Drop Total Energy	8.54 J/cm	0.0160 ft-lb/mil	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	126.5 °C @Thickness 3.17 mm	259.7 °F @Thickness 126.5 in	0.125; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	67.1 °C @Thickness 3.17 mm	153 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	
Oxygen Index	>= 25.0 %	>= 25.0 %	ASTM D2863

Processing Properties	Metric	English	Comments
Processing Temperature	193 - 210 °C	380 - 410 °F	Profile
	210 °C	410 °F	Stock

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