CELSTRAN® PP-CF40-03 AF3004 NAT

CELSTRAN® Long Fibre

Celstran® PP-CF40-03 AF3004 Natural is a 40% long carbon fiber filled Polypropylene. This material imparts excellent modulus and impact properties.

Product information

Resin Identification	PP-LCF40	ISO 1043
Part Marking Code	>PP-LCF40<	ISO 11469

Typical mechanical properties

Tensile modulus	2.56E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	14100	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	0.75	%	ISO 527-1/-2
Flexural modulus	2.8E6	psi	ISO 178
Flexural strength	25500	psi	ISO 178
Charpy notched impact strength, 23 °C	17.5	ftlb/in²	ISO 179/1eA

Physical/Other properties

Density	0.0408	lb/in³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	194	°F
Drying Time, Dehumidified Dryer	2 - 3	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	518	°F
Min. melt temperature	482	°F
Max. melt temperature	554	°F
Max. screw tangential speed	≤0.1	m/s
Mold Temperature Optimum	158	°F
Min. mold temperature	140	°F
Max. mold temperature	176	°F

Characteristics

Processing	Injection Molding

Revised: 2025-07-21 Source: Celanese Materials Database

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