



Product Data Sheet & General Processing Conditions

RTP 199 X 118048 Polypropylene (PP) Long Glass Fiber Concentrate

RTP 199 X 118048 is a 60% Long Glass Fiber, Heat Stabilized concentrate designed for blending with natural polypropylene to make long glass fiber compounds with fiber content from 10% to 50%

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE		STANDARD
Primary Additive	60 %	
Density	1.47 g/cm ³	ISO 1183

PROPERTY NOTES

Data herein is typical and not to be construed as specifications.
Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

GENERAL PROCESSING FOR INJECTION MOLDING

Injection Pressure	70 - 105 MPa
Injection Pressure	680 - 1030 bar
Melt Temperature	220 - 260 °C
Mold Temperature	35 - 65 °C
Drying	2 hrs @ 80 °C

PROCESSING NOTES

Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 5 mm minimum, in feed section, Screw diameter 16.5 - 20 mm minimum, Compression section length 12 - 13 diameters, Check ring valve assembly - free flow type no restrictions, Nozzle orifice 6 mm diameter. Feed throat from hopper to machine must have sufficient opening to prevent bridging of long pellet composition.

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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