




Product Data Sheet & General Processing Conditions

RTP 199 X 156119 B
Polypropylene (PP)
Mineral
Flame Retardant
Non-PBB/PBDE


This material is designed to meet the auto approval - GMW-16783P-PP-TD20-FR(17). This material is fully qualified and approved to meet this standard.

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	STANDARD	
Density	1.35 g/cm ³	ISO 1183
Melt Flow Rate		
@ 230 °C, / 2.16 kg	8.00 g/10 min	ISO 1133
Shrinkage, 4 mm Thickness		
Flow direction	0.70 - 1.00 %	ASTM D 955

MECHANICAL

Impact Strength, Charpy		
Notched, 4 mm thickness	3 kJ/m ²	ISO 179/1eA
Unnotched, 4 mm thickness	35 kJ/m ²	ISO 179/1eU
Tensile Strength	26 MPa	ISO 527
Tensile Elongation	> 10.0 %	ISO 527
Tensile Modulus	3000 MPa	ISO 527
Flexural Strength	45 MPa	ISO 178
Flexural Modulus	2900 MPa	ISO 178

THERMAL

Heat Deflection Temperature		
@ 1.80 MPa	70 °C	ISO 75
@ 0.45 MPa	127 °C	ISO 75
Ignition Resistance*		
Flammability	V-0 @ 1.5 mm	UL94
Flammability	5VA @ 3.0 mm	UL94
Thermal Conductivity		
Through-plane	0.30 W/(m.K)	ASTM E 1530
In-plane	1.05 W/(m.K)	ASTM E 1461-92

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.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

GENERAL PROCESSING FOR INJECTION MOLDING

Injection Pressure	69 - 103 MPa
Injection Pressure	690 - 1030 bar
Melt Temperature	191 - 232 °C
Mold Temperature	32 - 66 °C

Drying

2 hrs @ 79 °C

PROCESSING NOTES

30 Jun 2023 NAH

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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