



**Technical Data Sheet**  
**Thermylene® P1-35FM-Y942**  
35% Glass Fiber/ Mineral Reinforced  
PP

**Material Property**

**DESCRIPTION**

This is a glass fiber and mineral dual-reinforced polypropylene compound that has been optimized for applications requiring good strength/stiffness balance with dimensional stability.

GENERAL PROPERTIES	VALUE	UNIT	TEST STANDARD
Filler Content	35	%	ISO 3451/1
Density	1.20	g/cm <sup>3</sup>	ISO 1183A
Melt Flow	4	g/10 min	ISO 1133

MECHANICAL PROPERTIES	VALUE	UNIT	TEST STANDARD
Tensile Strength	74	MPa	ISO 527
Flexural Strength	115	MPa	ISO 178
Flexural Modulus	6400	MPa	ISO 178
Charpy Notched 23°C	7.8	kJ/m <sup>2</sup>	ISO 179

THERMAL PROPERTIES	VALUE	UNIT	TEST STANDARD
HDT @ 1.8 MPa	142	°C	ISO 75

**Auto Approvals**  
Ford WSB-M4D640-A  
GM GMP.PP.032  
FCA MS-DB500 CPN 4419

Always review the MSDS prior to using any of our products. The Material Safety Data Sheet for this product is available either by contacting Asahi Kasei Plastics NA Inc. or by visiting [www.akplastics.com](http://www.akplastics.com).

There are many factors which contribute to optimal processing and part production; geometry, thickness of the part, as well as application requirements that can impact dimensional tolerances and part appearance. Please contact our company for technical assistance in this area.

This technical data sheet is a summary of known information at the time of publication. The data contained herein are preliminary and may be subject to revision. The data reflects a normal range of properties for the product specified on the technical data sheet. Extra pigments, additives or combinations with other materials may alter the data. It is the responsibility of the customer to independently determine the suitability of a particular material for the intended use. Asahi Kasei Plastics NA Inc. makes no warranties, express or implied, concerning the suitability or fitness of its products for any particular use or accepts any liability in connection with this information. Asahi Kasei Plastics NA Inc. does not allow or support the use of this or any other materials we manufacture for implantation in the human body. For additional information, general guidelines, safe handling, processing and drying protocols please check out our processing guides (online link) or call (800) 444-4408.