

For more information and technical assistance contact:

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Marlex[®] HGZ-180

Polypropylene Homopolymer, Reactor Grade, Low Odor, Low Gas Fading

Applications:

- Bulked Continuous Filament
- Craft Yarn
- Nonwoven Fabrics
- Compounding

Agency Information:

- Meets FDA Regulation 21 CFR 177.1520 and is suitable for food packaging applications.

Nominal Physical Properties

Property	English	SI	Method
Density	0.904 g/cc	0.904 g/cc	ASTM D1505
Melt Flow Rate, @ 230°C	18 g/10min	18 g/10min	ASTM D1238
Tensile Strength at Yield, 50 mm/min	5,200 psi	35.8 MPa	ASTM D638
Flexural Modulus, Secant, 1.3 mm/min	220,000 psi	1,520 MPa	ASTM D790
Notched Izod Impact Strength, @ 23°C	0.3 ft*lb/in	17 J/m	ASTM D256
Heat Deflection Temperature, @ 0.455 MPa	210 °F	99 °C	ASTM D648
Shore D Hardness	74	74	ASTM D2240

Mechanical properties were determined using injection-molded specimens 1/8" (3.2mm) thick molded per ASTM D4101, unless otherwise noted.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

MSDS #240590

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Polypropylene Company

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Phillips Sumika Polypropylene Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.