

## PHM-12 Polypropylene Homopolymer

**PHM-12** is a **certified prime grade** Polypropylene designed for **INJECTION MOLDING** of general purpose applications. **PHM-12** combines a good balance of medium-high flow processability with good tensile strength, high stiffness and good contact clarity. **PHM-12** applications include thin-walled containers, housewares, medical ware, caps, closures, toys, and housings for small electrical appliances. **PHM-12** recommended processing temperature is between 210° to 230°C with mold at 20°- 50°C. **PHM-12** complies with FDA regulation 21CFR 177.1520 and with most international regulations concerning the use of Polypropylene in contact with food.

### Typical Properties

PROPERTIES*	ASTM TEST	UNIT ENGLISH (METRIC)	NOMINAL VALUES
<b>RESIN</b>			
Melt Flow Rate	D 1238L	gr./10 min	12
Density	D 1505	gr./cm <sup>3</sup>	0.905
Flexural Modulus <sup>1</sup>	D 790	psi (MPa)	236000 (1630)
<b>MOLDED SPECIMEN*</b>			
Tensile Strength @Yield <sup>2</sup>	D 638	psi (MPa)	5075 (35)
Elongation @ Yield <sup>2</sup>	D 638	%	10
Izod Impact Notched @23°C	D 256	ft.lb/in. (J/m)	0.6 (32)
Vicat softening point	D 1525	°C.	155
HDT @ 66 psi (0.46 MPa)	D 648	°C.	97
Hardness Rockwell	D 785	R Scale	90

**TYPICAL VALUE OF PROPERTIES NOT TO BE CONSTRUED AS SPECIFICATIONS.**

\* - Test made on injection molded Type 1 tension test specimen according to ASTM D 2146.

1 - 1% secant @ 1.3 mm/min. speed.

2 - @ 50 mm/min.

**THIS PRODUCT DATA SHEET EFFECTIVE JUNE 2003 SUPERSEDES ALL DATA PREVIOUSLY PUBLISHED**

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