

TECHNICAL DATASHEET

MC3500 General Purpose Polystyrene



Features

- Fast cycling & easy flow characteristics
- Excellent mold release properties

Typical Applications

- Toys
- Containers
- Instruments and home applications.

Nominal Physical Properties ¹	ASTM Method	Condition	English	SI
Specific Gravity	D792	-	1.04 g/cm ³	1.04 g/cm ³
Melt Flow	D1238	200 °C, 5kg	9 g/10min	9 g/10min
Izod Impact, Notched, 1/4"	D256	23 °C	0.25 ft-lb/in	13 J/m
Izod Impact, Notched, 1/8"	D256	23 °C	0.35 ft-lb/in	19 J/m
Vicat Softening Temperature	D1525	Rate B	215 °F	101 °C
Tensile Yield ²	D638	5 mm/min	7,200 psi	50 MPa
Tensile Rupture ²	D638	5 mm/min	7,200 psi	50 MPa
Tensile Elongation ²	D638	5 mm/min	3 %	3 %
Tensile Modulus ²	D638	5 mm/min	450,000 psi	3,100 MPa
Flexural Modulus ²	D790	2.5 mm/min	460,000 psi	3,170 MPa

1. 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. Values are rounded.
2. 0.125 in. (3.2mm) injection molded specimen

This resin meets these specifications:

- U.S. Food Additive Regulation 21 CFR 177.1640 for polystyrene and rubber modified polystyrene
- UL 94HB