



# P5M2Z-012

## Random Copolymer for Blow Molding and Profile Extrusion

**Features:** Produced without animal derived components or phthalates

**Applications:** Bottles and tubing

### Resin Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Melt Flow Rate	1.9 g/10min		D1238
Density	0.90 g/cm <sup>3</sup>		D1505
Melting Temperature	145 -152 °C	293 – 306 °F	D3418

### Mechanical Properties

	Typical Value (SI)	Typical Value (English)	ASTM Test Method
Tensile Yield Strength	28 MPa	4100 psi	D 638
Tensile Yield Elongation	12 %	12 %	D 638
Flexural Modulus - Tangent	880 MPa	127 kpsi	D 790
Flexural Modulus - Secant	820 MPa	119 kpsi	D 790
Deflection Temperature @66psi (0.455 MPa)	76 °C	169 °F	D 648
Rockwell Hardness		84 R	D 785
Notched Izod @ 23°C	70 J/m	1.3 ft-lb/in	D 256
Gardner Impact @ 23°C	28 J	250 in-lb	D 5420

### Regulatory

FDA – 21 CFR 177.1520(c) 3.1a

USP <88> Class VI

Drug Master File listed

118 Huntsman Way, Longview, TX 75602 – (903) 239-5332

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