

Wellman Wellpet® PR109-N1 Unfilled PET

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

Description: Unfilled PET Information provided by Wellman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Wellman-Wellpet-PR109-N1-Unfilled-PET.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183-87
Linear Mold Shrinkage	0.0010 - 0.0050 cm/cm	0.0010 - 0.0050 in/in	ISO DIS 294-4
Melt Flow	3.5 g/10 min @Load 0.325 kg, Temperature 280 °C	3.5 g/10 min @Load 0.716 lb, Temperature 536 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D-2240
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527-93
Elongation at Break	250 %	250 %	ISO 527-93
Flexural Strength	60.0 MPa	8700 psi	ISO 178-93
Flexural Modulus	2.70 GPa	392 ksi	ISO 178-93
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180-93

Thermal Properties	Metric	English	Comments
Melting Point	245 °C	473 °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-93

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D-2240
Transmission, Visible	87 %	87 %	ASTM D-1003

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