

SABIC Innovative Plastics ULTEM PW2100 PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

10% Glass fiber filled, standard flow Polyetherimide (Tg 217Â°C). Specific grade-colors are designed and certified for use in Potable Water applications. KTW, WRAS, ACS, NSF-61 and W270 certified. US FDA and European Food Contact approved.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-ULTEM-PW2100-PEI-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/inÂ³	ISO 1183
Moisture Absorption	0.600 %	0.600 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	9.0 g/10 min @Load 5.00 kg, Temperature 360 Â°C	9.0 g/10 min @Load 11.0 lb, Temperature 680 Â°F	MVR [cm³/10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	140 MPa	20300 psi	ISO 2039-1
Tensile Strength at Break	115 MPa	16700 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	4.50 GPa	653 ksi	1 mm/min; ISO 527
Flexural Strength	185 MPa	26800 psi	2 mm/min; ISO 178
Flexural Modulus	4.50 GPa	653 ksi	2 mm/min; ISO 178
Izod Impact, Unnotched (ISO)	30.0 kJ/mÂ²	14.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
	30.0 kJ/mÂ² @Temperature -30.0 Â°C	14.3 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1U
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179/2C
Taber Abrasion, mg/1000 Cycles	15	15	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
	26.0 Âµm/m-Â°C	14.4 Âµin/in-Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	@ Temperature 23.0 - 150 Â°C	@ Temperature 73.4 - 302 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C	33.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature 23.0 - 150 Â°C	@Temperature 73.4 - 302 Â°F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	210 Â°C	410 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	212 Â°C	414 Â°F	Rate B/50; ISO 306
	217 Â°C	423 Â°F	Rate B/120; ISO 306
	223 Â°C	433 Â°F	Rate A/50; ISO 306
Glass Transition Temp, Tg	217 Â°C	423 Â°F	
Oxygen Index	46 %	46 %	ISO 4589

Descriptive Properties	Value	Comments
Ball Pressure Test, 125Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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