

Styron Pulse[®] 920 MG PC/ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

An inherently matt medium heat, medium impact PC/ABS resin, PULSE[®] 920 MG is designed for interior automotive applications where a matt aesthetic is required. Information provided by Dow This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-Pulse-920-MG-PCABS.php

Physical Properties	Metric	English	Comments
Melt Flow	3.5 g/10 min	3.5 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	17 g/10 min	17 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 Å°C	@Load 11.0 lb, Temperature 500 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	100mm/min; ISO 527
Elongation at Break	100 %	100 %	100mm/min; ISO 527
Tensile Modulus	2.25 GPa	326 ksi	1 mm/min; ISO 527
Flexural Strength	85.0 MPa	12300 psi	2mm/min; ISO 178
Flexural Modulus	2.10 GPa	305 ksi	3 points and 2 mm/min; ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	ISO 180
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 - 80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	41.7 - 44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 0.000 - 80.0 $\text{Å}^\circ\text{C}$	@Temperature 32.0 - 176 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	105 $\text{Å}^\circ\text{C}$	221 $\text{Å}^\circ\text{F}$	unannealed; ISO 75-A
Vicat Softening Point	122 $\text{Å}^\circ\text{C}$	252 $\text{Å}^\circ\text{F}$	50N / 50 $\text{Å}^\circ\text{C}$ (unannealed); ISO 306B
	142 $\text{Å}^\circ\text{C}$	288 $\text{Å}^\circ\text{F}$	10N / 120 $\text{Å}^\circ\text{C}$ (unannealed); ISO 306A
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 290 $\text{Å}^\circ\text{C}$	482 - 554 $\text{Å}^\circ\text{F}$	
Mold Temperature	50.0 - 90.0 $\text{Å}^\circ\text{C}$	122 - 194 $\text{Å}^\circ\text{F}$	

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