

Styron Pulse® A35-105 PC/ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

PULSE® A35-105 engineering resins give exceptional impact strength even at low temperatures and have high heat distortion temperature. 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-A35-105-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO R1183 B
Water Absorption	0.20 - 0.60 %	0.20 - 0.60 %	ISO R 62
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 g/10 min	3.0 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	12 g/10 min	12 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 250 °C	@Load 11.0 lb, Temperature 482 °F	ISO 1133
	17 g/10 min	17 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	105 MPa	15200 psi	DIN 53459
Tensile Strength at Break	50.0 MPa	7250 psi	ISO R 527
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO R 527
Elongation at Break	>= 80 %	>= 80 %	ISO R 527
Tensile Modulus	2.20 GPa	319 ksi	ISO R 527
Flexural Strength	82.0 MPa	11900 psi	ISO 178
Flexural Modulus	2.10 GPa	305 ksi	3 points; ISO 178
Izod Impact, Notched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO R 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	70.0 kJ/m ²		

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	33.3 ft-lb/in ² @Temperature 73.4 °F	ISO R 180
Charpy Impact, Notched	2.00 J/cm ² @Temperature -40.0 °C	9.52 ft-lb/in ² @Temperature -40.0 °F	ISO R179
	2.80 J/cm ² @Temperature 0.000 °C	13.3 ft-lb/in ² @Temperature 32.0 °F	ISO R179
	3.50 J/cm ² @Temperature 23.0 °C	16.7 ft-lb/in ² @Temperature 73.4 °F	ISO R179

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 - 80.0 µm/m-°C @Temperature 0.000 - 80.0 °C	41.7 - 44.4 µin/in-°F @Temperature 32.0 - 176 °F	ASTM D696
Thermal Conductivity	0.200 W/m-K	1.39 BTU-in/hr-ft ² - °F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	126 °C	259 °F	unannealed; ISO 75 B
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	unannealed; ISO 75 A
Vicat Softening Point	122 °C	252 °F	50°C/hr, 5 kg; ISO 306 B
	142 °C	288 °F	120°C/hr, 1 kg; ISO 306 A
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	20 %	20 %	ASTM D2863

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	

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