

AMERICOLENE® PPN-12Z-00

AMERICOLENE

Polypropylene Impact Copolymer

AMERICOLENE® PPN-12Z-00 is a nucleated, antistated impact copolymer with an excellent balance of high stiffness, good impact and fast injection cycles intended for use in the production of consumer products, appliances, office furniture, toys and juvenile products. This material has been recognized by UL for sustained use at 65°C and meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520.

	Values English Units	Values SI Units	ASTM Method
Resin			
Density	-	0.903 g/cc	D792
Melt Flow Rate, 230°C/2.16 kg	-	12 g/10 min	D1238
Injection Molded Sample			
Tensile Strength (2 in/min)			D638
@ Yield	4,077 psi	28.1 MPa	
@ Break	2,717 psi	18.7 MPa	
Elongation (2 in/min)			D638
@ Yield		5.4 %	
@ Break		110%	
Flexural Modulus			D790A
1% Secant	213,000 psi	1,470 MPa	
Notched Izod Impact Strength			D256
@ 23 C	2.63 ft-lbf/in	13.8 kJ/m ²	
@ - 20 C	0.88 ft-lbf/in	4.62 kJ/m ²	
Hardness			
Rockwell R	91	91	D785
Vicat Temperature	303 F	151 C	D1525
Deflection Temperature			D648
@ 66 psi (455 kPa)	231 F	110 C	
@ 264 psi (1,820 kPa)	134 F	57 C	
Gloss at 60° angle		75 %	D2457
Instrumented Impact			D3763
@ 23 C	Ductile	Ductile	
@-20 C	Mixed	Mixed	
UL Recognition (1.5 mm thickness)			UL94
Relative Temperature Index	149 F	65 C	
Flammability Classification	-	HB	

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