

Exelene® PP R1005

Polypropylene Random Copolymer

Montachem International, Inc.

Message:

Exelene® PP R1005 is a Polypropylene Random Copolymer (PP Random Copolymer) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Applications of Exelene® PP R1005 include audio/video, containers, food contact applications, kitchenware and medical/healthcare.

Characteristics include:

Antioxidant

Antistatic

Clarified

Clarity

Copolymer

General Information			
Additive	Antioxidant		
	Antistatic		
	Clarifier		
Features	Antioxidant		
	Antistatic		
	Food Contact Acceptable		
	High Clarity		
	Random Copolymer		
Uses	Food Containers		
	Hypodermic Syringe Parts		
	Kitchenware		
	Media Packaging		
	Video Cassettes		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	94		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	33.1	MPa	ASTM D638
Tensile Elongation ² (Yield)	12	%	ASTM D638
Flexural Modulus - 1% Secant ³ (3.20 mm)	1110	MPa	ASTM D790B

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	69	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.0	°C	ASTM D648
NOTE			
1.	Type IV, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Type I, 13 mm/min		

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