# Maxxam<sup>™</sup> PP-C-20T NATURAL

Polypropylene Copolymer **Avient Corporation** 



## **Technical Data**

## **Product Description**

Avient's Maxxam<sup>™</sup> family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc.

• Asia Pacific       • Latin America         Filler / Reinforcement       • Filler, 20% Filler by Weight       • Talc         Additive       • Impact Modifier         Features       • Copolymer       • General Purpose         • Automotive Applications       • Consumer Applications	eral			
Search for UL Yellow Card       • Avient Corporation • Maxxam™         Availability       • Africa & Middle East • Asia Pacific       • Europe • Latin America       • North A         Filler / Reinforcement       • Filler, 20% Filler by Weight       • Talc       • Additive         Additive       • Impact Modifier       • General Purpose       • Impact         Uses       • Automotive Applications • Construction Applications • General Purpose       • Industrial	aterial Status • Co	ommercial: Active		
Search for UL Yellow Card       • Maxxam™         Availability       • Africa & Middle East • Asia Pacific       • Europe • Latin America       • North A         Filler / Reinforcement       • Filler, 20% Filler by Weight       • Talc       •         Additive       • Impact Modifier       •       •         Features       • Copolymer       • General Purpose       • Impact         Uses       • Automotive Applications • Construction Applications       • Consumer Applications • General Purpose       • Industr	erature <sup>1</sup> • Te	echnical Datasheet		
Availability       • Asia Pacific       • Latin America       • North A         Filler / Reinforcement       • Filler, 20% Filler by Weight       • Talc         Additive       • Impact Modifier         Features       • Copolymer       • General Purpose       • Impact         Uses       • Automotive Applications • Construction Applications       • Consumer Applications • General Purpose       • Industr	arch for LIL Yellow Card	· · · · · · · · · · · · · · · · · · ·		
Additive       • Impact Modifier         Features       • Copolymer       • General Purpose       • Impact         Uses       • Automotive Applications • Construction Applications       • Consumer Applications • General Purpose       • Industr	ailability			North America
Features• Copolymer• General Purpose• ImpactUses• Automotive Applications • Construction Applications • General Purpose• Industr	er / Reinforcement • Fil	iller, 20% Filler by Weight	• Talc	
Uses • Automotive Applications • Consumer Applications • Construction Applications • General Purpose • Industr	ditive • Im	npact Modifier		
• Construction Applications     • General Purpose     • Industr	atures • Co	opolymer	General Purpose	Impact Modified
Appearance  • Natural Color				Industrial Applications
	pearance • Na	atural Color		
Forms • Pellets	rms • Pe	ellets		
Processing Method  • Injection Molding	ocessing Method • Inj	ijection Molding		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.05 g/cm <sup>3</sup>	ASTM D792
Specific Volume	0.954 cm³/g	ASTM D792
Melt Mass-Flow Rate (MFR) <sup>3</sup> (230°C/2.16 kg)	7.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80 to 1.2 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>4</sup> (Yield)	24.8 MPa	ASTM D638
Tensile Elongation <sup>4</sup> (Break)	60 %	ASTM D638
Flexural Modulus	2000 MPa	ASTM D790
Flexural Strength	37.9 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256A
23°C, 3.18 mm, Injection Molded	59 J/m	
Unnotched Izod Impact <sup>5</sup> (23°C, 3.18 mm)	810 J/m	ASTM D4812
Instrumented Dart Impact - Energy to Maximum Load	673 J/m	ASTM D3763
Gardner Impact (-23°C, 3.18 mm)	9.26 J	ASTM D3029
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	70	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 3.18 mm	118 °C	
Injection	Nominal Value Unit	
Mold Temperature	16 to 50 °C	



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#### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

- <sup>2</sup> Typical properties: these are not to be construed as specifications.
- <sup>3</sup> Procedure A
- <sup>4</sup> Type I, 51 mm/min
- <sup>5</sup> Injection Molded



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