
General Information

Product Description

This natural homopolymer is recommended for higher pressure series pipe and applications such as municipal water service pipe.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Test Standards Available	<ul style="list-style-type: none"> ASTM
Features	<ul style="list-style-type: none"> Food Contact Acceptable
Uses	<ul style="list-style-type: none"> Piping Tubing
Agency Ratings	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 ¹
Appearance	<ul style="list-style-type: none"> Natural Color
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Extrusion Extrusion, Pipe

ASTM and ISO Properties ²

Physical	Nominal Value Unit	Test Method
Density	0.921 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength @ Break ³	2180 psi	ASTM D638
Tensile Elongation @ Brk ³	550 %	ASTM D638
Flexural Modulus	1% Secant: 31200 psi	ASTM D790
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (A Scale)	96	ASTM D2240
(D Scale)	47	
Thermal	Nominal Value Unit	Test Method
Brittle Temperature	-116 °F	ASTM D746
Vicat Softening Point	201 °F	ASTM D1525
Melting Point	234 °F	DSC

Additional Properties

The value listed as Density-Specific Gravity, ASTM D1505, was also tested in accordance with ASTM D1982 ProcC Mod.

Notes

¹ When used unmodified for the manufacture of food contact articles, AT 220 will comply with Food Additive Regulations FDA 21 CFR 177.1520 under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

² Typical properties: these are not to be construed as specifications.

³ Type IV, 2.0 in/min
