Piolen® PE T30A103

High Density Polyethylene

PiO Kunststoffe GmbH & Co KG

Message:

Piolen® PE T30A103 is a High Density Polyethylene product filled with 30% talc. It can be processed by extrusion and is available in Europe. Typical application: Construction Applications.

Characteristics include:

Flame Rated

Good Aesthetics

Impact Resistant

	General Information			
Uses Construction Applications Appearance Natural Color Forms Pellets Processing Method Extrusion Physical Nominal Value Unit Test Method Density 1.19 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 MPa 23°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Unit Test Method Test Method Test Method Test Method Test Method Test Method	Filler / Reinforcement	Talc,30% Filler by Weight		
Uses Construction Applications Appearance Natural Color Forms Pellets Processing Method Extrusion Physical Nominal Value Unit Test Method Density 1.19 g/cm³ ISO 1183 Melit Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 ISO 527-2 Yield 27.0 MPa ISO 527-2 Flexak 46.0 MPa ISO 527-2 Flexak 46.0 MPa ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break ISO 179/1eU -40°C No Break ISO 179/1eU	Features	Good Surface Finish		
Appearance Natural Color Forms Pellets Processing Method Extrusion Physical Nominal Value Unit Test Method Density 1.19 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 1SO 527-2 Yield 27.0 MPa ISO 527-2 Break 46.0 MPa ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA 4-40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU 23°C No Break ISO 179/1eU 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DS		Low Temperature Impact Resistance		
Appearance Natural Color Forms Pellets Processing Method Extrusion Physical Nominal Value Unit Test Method Density 1.19 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 1SO 527-2 Yield 27.0 MPa ISO 527-2 Break 46.0 MPa ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA 4-40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU 23°C No Break ISO 179/1eU 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DS				
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Density 1.19 g/cm³ ISO 1183 Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 ISO 527-2 Yield 27.0 MPa ISO 527-2 Break 46.0 MPa ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA 4-40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU 23°C No Break ISO 179/1eU 23°C No Break ISO 179/1eU Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Unit Test Method	Processing Method	Extrusion		
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 ISO 527-2 Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength 6.0 kJ/m² ISO 179/1eA -40°C 6.0 kJ/m² ISO 179/1eU -40°C No Break ISO 3146 Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146	Physical	Nominal Value	Unit	Test Method
kg) 0.30 g/10 min ISO 1133 Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 ISO 527-2 Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 3146 Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146	Density	1.19	g/cm³	ISO 1183
Mechanical Nominal Value Unit Test Method Tensile Stress ISO 527-2 ISO 527-2 Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % Impact So 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Melt Mass-Flow Rate (MFR) (230°C/2.16			
Tensile Stress ISO 527-2 Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break 23°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	kg)	0.30	g/10 min	ISO 1133
Yield 27.0 MPa Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU -40°C No Break ISO 3146 Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Mechanical	Nominal Value	Unit	Test Method
Break 46.0 MPa Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU -40°C No Break ISO 179/1eU -40°C No Break ISO 179/1eU Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Tensile Stress			ISO 527-2
Tensile Strain (Break) 32 % ISO 527-2 Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² ISO 179/1eU -40°C No Break ISO 179/1eU 23°C No Break Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Yield	27.0	MPa	
Flexural Modulus 2100 MPa ISO 178 Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Break	46.0	MPa	
Impact Nominal Value Unit Test Method Charpy Notched Impact Strength ISO 179/1eA -40°C 6.0 kJ/m² 23°C 19 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Tensile Strain (Break)	32	%	ISO 527-2
Charpy Notched Impact Strength -40°C 6.0 kJ/m² 23°C 19 kJ/m² Charpy Unnotched Impact Strength -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Flammability Nominal Value Nominal Value Nominal Value Test Method	Flexural Modulus	2100	MPa	ISO 178
-40°C 6.0 kJ/m² 23°C 19 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Impact	Nominal Value	Unit	Test Method
23°C 19 kJ/m² Charpy Unnotched Impact Strength ISO 179/1eU -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Charpy Notched Impact Strength			ISO 179/1eA
Charpy Unnotched Impact Strength -40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	-40°C	6.0	kJ/m²	
-40°C No Break 23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	23°C	19	kJ/m²	
23°C No Break Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	Charpy Unnotched Impact Strength			ISO 179/1eU
Thermal Nominal Value Unit Test Method Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	-40°C	No Break		
Peak Crystallization Temperature (DSC) 124 to 137 °C ISO 3146 Flammability Nominal Value Test Method	23°C	No Break		
Flammability Nominal Value Test Method	Thermal	Nominal Value	Unit	Test Method
	Peak Crystallization Temperature (DSC)	124 to 137	°C	ISO 3146
Flame Rating HB UL 94	Flammability	Nominal Value		Test Method
	Flame Rating	НВ		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

