WORLD CONTINENTAL IMPEX

Technical Data Sheet **WCI PEX 1540**

Product Description

WCI PEX 1540 is a polyethylene grafted with maleic anhydride, designed as an adhesive resin for bonding polyethylene to metals and other polymers. This grade is engineered for multilayer pipe systems such as PE/PEX-AL-PE/PEX structures **WCI PEX 1540** maintains the core properties of polyethylene, including excellent resistance to chemical solvents, strong weatherability, reliable mechanical performance, and good processing behavior. Its grafting with maleic anhydride improves adhesion, making it ideal for complex composite pipe applications.

Typical Application

- Plumbing & Water Distribution: Used in hot and cold water supply pipes, ensuring durability and resistance under varying temperatures.
- Heating Systems: Applied in underfloor heating, radiant floor cooling, and snow-melting systems due to high thermal resistance.
- PEX/AL/PEX Multilayer Pipes: Suitable for 5-layer pipes combining PEX and aluminum, providing strength, flexibility, and barrier protection.
- Residential Fire Systems: Used in safety-critical piping where heat resistance and long-term reliability are essential.
- Industrial Applications: Can be applied in radiator connections, wall-base heating pipes, and other systems requiring sustained performance up to 200°F.

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TECHNICAL SPECIFICATION

PROPERTIES	UNIT	VALUE	STANDARD
Density	g/cm^3	0.930	ISO 1183
Melt Mass-Flow Rate (190°C/2.16 kg)	g/10 min	2.0 ±0.5	ISO 1133
Oxidation Induction Time (210°C)	min	>30	ISO 11357
Water content	%	< 0.1	ISO 15512
Tensile Stress (Break)	MPa	> 16.0	ISO 527
Tensile Stress (Yield)	MPa	>12	ISO 527
Tensile Strain (Break)	%	> 600	ISO 527
Vicat Softening Temperature	°C	105	ISO 306/A50
Durometer Hardness (Shore D)	-	48	ISO 868

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