

	Norm			Applicable on			Major Pipe Application Relevance	PESTEC	Test Result
	ASTM	ISO	OTHERS	Raw Mat / Compound	Lab Product	Final Product		PR Range	Availability
								* 1	*2
Polymer Data									
Density	D 1505	1183		x	x	x	All	x	B,S,O,L
Melt Flow / Melt Index	D 1238	1133		x	x	x	All		B,S,O,L
Viscosity Number	D 2857			x			All		B,O,L
Pigment / Carbon Black Content	D 1603	6964		x	x	x	All	x	B,G,O
Pigment Dispersion		18553		x	x	x	All	x	B,G,O
Water Content	D 4019	760		x	x	x	Pressure Pipe	x	B,O,L
Ash Content		3451		x	x	x	Pressure Pipe	x	B,O,L
Rheological Data									
Fluidity of Plastics	D 3835	11443		x			All		B,O,L
Polymer Viscosity	D 1601	1628		x			All		B,O,L
Polymer Capillary Properties	D 3835			x			All		B,O,L
Mechanical Data									
Modulus of Elasticity	D 638				x		All	x	B,O,L
Flexural Creep Modulus	D 790	899			x		All	x	O,L
Flexural Fatigue	D 671				x		All	x	O,L
Bending Modulus	D 747	178			x		All	x	O,L
Tensile Creep Modulus		899			x		All	x	O,L
Tensile Strength At Yield / Elongation At Yield	D 638	6259-3			x	x	All	x	B,S,O,L
Tensile Strength at Break / Elongation at Break	D 638	6259-3			x	x	All	x	B,S,O,L
Flexural Creep and Creep Rupture	D 2990				x	x	All		B,O,L
Compression	D 695	604			x		All		B,O,L
Charpy Impact / Impact Strength	D 6110	179			x	x	All	x	B,O,L
Izod Impact Strength	D 256	180			x	x	All	x	B,O,L
Puncture Impact	D 732	6603			x	x	All		O
Tensile Impact Strength		8256			x	x	All	x	B,O,L
Hardness	D 785	2039			x	x	All		B,O,L
Shore Hardness / Ball Indentation Hardness	D 2240	868			x	x	All	x	B,O,L
Compression Set		815			x	x	All		O,L
Friction Coefficient	D 1894				x	x	Waste Water and Mining pipes	x	G,O,L
Stiffness / Shear Modulus of Rigidity	D 1043				x	x	All	x	B,O,L
Resistance to Abrasion	D 1242				x	x	Waste Water and Mining pipes	x	O,L
Thermal Data									
Linear Thermal Expansion Coefficient	D 696				x		All		B,O,L
Thermal Conductivity	D177				x		Cable isolating and protection pipes		O,L
Brittleness Temperature	D 746				x		Natural Gas and Drinking Water Pipes		O,L
Temperature and Crystallization		11357		x			Natural Gas and Drinking Water Pipes		O,L
Dynamic Mechanical Properties		6721			x		Natural Gas and Drinking Water Pipes		O,L
Thermogravimetry of Polymers		11358		x			Natural Gas and Drinking Water Pipes		O,L
OIT - Oxidation-Induction Time	D 3895	10837		x	x	x	Pipes for exposed applications	x	G,O
Vicat Softening Temperature	D 1525	306		x			All		O,L
Temperature of Deflection under Load		75		x			Natural Gas and Drinking Water Pipes		O,L
Thermal Insulating Materials			DIN 52612	x			Cable isolating and protection pipes		O,L
Thermal Stress Cracking	D 2951				x	x	Natural Gas and Drinking Water Pipes		O,L
Electrical Data									
Electric Resistance			IEC 60093	x	x		Cable isolating and protection pipes		O,L
Electric Strength for Insulating Materials			IEC 30243	x	x		Cable isolating and protection pipes		O,L
Resistance of Solid Electrical Insulation	D 495			x	x		Cable isolating and protection pipes		O,L
Resistance to Track and Erose			IEC 60587	x	x		Cable isolating and protection pipes		O,L
Stability Data									
Outdoor Weathering	D 1435					x	Pipes for exposed applications	x	O
Atmospheric Environmental Exposure	G 7	877				x	Pipes for exposed applications		O
Xenon Arc Exposure	D 2565	4892				x	Pipes for exposed applications	x	G,O
WOM			UL 746 C			x	Pipes for exposed applications	x	G,O
Color Fastness to Light		105				x		x	G,O
ESCR - Environmental Stress Crack Resistance	D 1693					x	Pipes for exposed applications	x	B,O
ESCR Compressed Ring	F 1248					x	Pipes for exposed applications		O
Peel Resistance			EN 1464			x	Heat Shrink Pipe	x	G,O
Slow Crack Propagation Resistance	F 2136	13479				x	Natural Gas and Drinking Water Pipes		O
Slow Crack Notched Propagation Resistance		13479				x	Natural Gas and Drinking Water Pipes		O
Rapid Crack Propagation Resistance		13477				x	Natural Gas and Drinking Water Pipes		O
FNCT - Full Notched Creep Test		16770				x	Natural Gas and Drinking Water Pipes		O
Hydrostatic Strength / Hydrostatic Design Basis	D 2837					x	All	x	B,O
Long Term Properties		9080				x	Natural Gas and Drinking Water Pipes		O
Internal Pressure Resistance		1167				x	All kind of Pressure Pipes	x	G,O,L

Legend

*1 = Indication of Relevance for Applications of Main PESTEC Product Lines

*2 = Indication of Test Result Availability of Main PESTEC Product Lines

B = Basic Properties provided from Raw Material / Compound Supplier

S = PESTEC Standard Test performed at production laboratory for every production provided free of charge

G = General PESTEC Product Development Test performed from independant laboratory provided free of charge

O = PESTEC Optional Test to be performed from independant laboratory and provided on surcharge

L = Literature