

### Long Chain Nylon Grades

Item	A4TR01	A4TR03	A4TR04	PA1212BR-III	PA1212C-01	PA1212CR-III	610-I	610-II	610-III	612-I	612-II
Viscosity Number, g/ml							105 +/-15	135+/-15	180+/-20	105 +/-15	180+/-20
Intrinsic Visc, ml/g				(167)		(>160)					
Charpy Notch Impact, KJ/m2	25JNB	25JNB	25JNB	46	25JNB						
Charpy Non-Notch Impact, KJ/m2	25JNB	25JNB	25JNB	25JNB (>50)	25JNB	(>50)					
Tensile Strength, MPa	48	54	46	50 (57)	58	(55)	>= 50	>= 50	>= 50	>= 50	>= 50
Elongation At Break, %	244	263	225	292 (250)	307	(200)	>= 100	>= 100	>= 100	>= 150	>=150
Flexural Strength, MPa	13	19	16	49	12						
Bending Strength, Mpa							>= 50	>= 50	>= 50	>=30	>=30
Flexural Modulus, MPa	272	444	391	1172 (1000)	245	(1200)					
Deflection Temp (0.45MPa), deg C					(147)						
Melt Flow Rate g/10min	2.2	2.7	3.6	3.8	2.9						
Granularity, N/g							30 - 50	30 - 50	30 - 50	30 - 50	30 - 50
Loss on Drying %							<= 1.0	<= 1.0	<= 1.0	<= 1.0	<= 1.0
Moisture Content, %						(0.07)					
Melting Pt, deg C				(193)		(188)	208 - 220	208 - 220	208 - 220	205 - 215	205 - 215
Relative Density, G/cm3							1.07 - 1.13	1.07 - 1.13	1.07 - 1.13	1.04 - 1.08	1.04 - 1.08
Sp Gravity				1.035		(1.045)					
	Flexible grade. Plasticizer content 11-12%. Excellent resistance to high and low temperature denaturation.	Semi-flexible grade. Plasticizer content 5-6%.	Semi-flexible grade. Plasticizer content 6-7%.	Plasticizer content 0. For the production of rigid pipe.	Flexible grade. Plasticizer content 11-12%.						