

CELANESE PERFORMANCE MATERIALS FOR WIRE AND CABLE APPLICATIONS – ZYTEL® PA LONG CHAIN NYLON

CELANESE ZYTEL® PA LONG CHAIN NYLON (PA1010, 612), AN ALTERNATIVE TO PA11 AND PA12 FOR CABLE JACKETING, IS BACKED BY EXCELLENT PERFORMANCE PROPERTIES:

- Long chain polyamides are flexible without plasticizer
- Base material can be partially or entirely renewable sourced
- PA1010 outperforms PA12 in heat stability

Grades:

Zytel® RS LC1010 (PA1010)

Zytel® 158 (PA 612)



			Hydrel® 3078	Hydrel® 8238	Crastin® PBT CR6129	PA12	Zytel® PA	Zytel® RS LC1010
						typical grade for extrusion for tight buffer		
			TPC-ET	TPC-ET	PBT	PA12	PA612	PA1010
							Medium	Lowest
Moisture pick up	Water abs - 50%RH	%	0.20%	0.20%	0.20%	0.70%	130.00%	0.91%
Shrinkage	CLTE	/°C	2.20E-04	1.30E-04	1.3 e-4	1.13 e-4	1.2(P) / 1.2(N)	1.05/1.14
	injection molding shrinkage	%	0.7	1.6	1.6	ab 1.3%	ab 1.3%	
Mechanical Properties	E modulus (Mpa)	Mpa	23	1180	2600	1400-1500	2400/1600	2100/1160
	Stress at bk	Mpa	24	57		50		
	Elong @bk impact resistance	%	>600	400	200	>50	>35	>35
	(données à -30 / puis à 23 °C)	KJ:m²	No break	5/15	4/5	3/4	4/7	5/10
Temperatures	Tmelt	°C	177	223	225	180	218	203
	Tg	°C	-60	50		ab 40°C		
	Vicat soft. Temp	°C	80	210	175		181	

