

Product data sheet

MD-3510

MDPE made via Spherilene Process



MD-3510 is a medium density polyethylene resin (MDPE), 1-butene copolymer, obtained by gas phase technology process. This grade designed for the production of drip irrigation tapes, pipes and mono or coex film applications. In this grade excellent extrusion properties combined with good mechanical properties. MD-3510 can be blended with different PE grades to modify the final properties of the products.

MDPE: 3510

Density: 0.934 - 0.936

MFI: 0.3 - 0.5

Characteristic Properties



- Excellent extrusion properties, Good mechanical properties

Main Applications



- tapes and pipes
- Heavy duty film applications
- FSS packaging films

Additives



- Thermal Antioxidant (Process Stabilizer)
- Catalyst neutralizer (acid scavenger, lubricant)
- Anti UV
- PPA

Material properties (This data are typical values and are not to be construed as product specifications.)

Resin Properties	Unit	Typical Value	ASTM Method
Melt Index (190°C/ 2.16Kg)	(g/10 min)	0.4	D1238
Density	g/cm ³	0.935	D1505
Thermal properties @			
Vicat Softening Point	(°C)	120	D1525
Melting Point	(°C)	130	D3418
Mechanical Properties @			
Flexural modulus	(MPa)	640	D790
Tensile Strength at Yield	(MPa)	18	D638
Tensile Strength at Break	(MPa)	27	D638
Tensile Elongation at Break	%	>800	D638
Notched Izod Impact @ 23 °C	J/m	700	D256/A
Hardness	Shore D	61	D2240
ESCR	hr	>1000	1693
Oncompression molded according to ASTM D1928C			