

# MD-3520

### MDPE made via Spherilene Process



MD-3520 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 processability combined with good mechanical properties. MD-3520 can be blended with different PE grades to modify the final properties of the products.

**MDPE: 3520**

**Density: 0.934 - 0.936**

**MFI: 0.5 - 0.7**

#### Characteristic Properties



- Excellent extrusion properties, Good mechanical properties

#### Main Applications



- tapes and pipes
- Heavy duty shipping bag
- Heavy duty film applications
- FSS automatic 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)	0.6	D1238
Density	g/cm <sup>3</sup>	0.935	D1505
<b>Thermal properties @</b>			
Vicat Softening Point	(°C)	118	D1525
Melting Point	(°C)	129	D3418
<b>Mechanical Properties @</b>			
Flexural modulus	(MPa)	640	D790
Tensile Strength at Yield	(MPa)	18	D638
Tensile Strength at Break	(MPa)	25	D638
Tensile Elongation at Break	%	>800	D638
Notched Izod Impact @ 23 °C	J/m	600	D256/A
Hardness	Shore D	61	D2240
ESCR	hr	>1000	1693
<b>Oncompression molded according to ASTM D1928C</b>			