

Polypropylene PD 943XP

Sub-group:

Homopolymer

Description:

PD 943 XP is a medium melt flow rate homopolymer, with slip and antiblocking agents. It is suitable for blown film extrusion. This product features good impact strength, excellent gloss and transparency, good slipping and good weldability.

Applications:

Coil for automatic packaging; General purpose, food and textile packaging.

Processing:

Blown Film Extrusion

Control Property:

	ASTM Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	D 1238	g/10 min	7.0

Typical Properties^a:

	ASTM Method	Units	Values
Density	D 792	g/cm ³	0.905
Flexural Modulus – 1% secant	D 790	MPa	1400
Tensile Strength at Yield	D 638	MPa	35
Tensile Elongation at Yield	D 638	%	11
Rockwell Hardness (R Scale)	D 785	-	98
Notched Izod Impact Strength at 23°C	D 256	J/m	30
Deflection Temperature under Load at 0.455 MPa	D 648	°C	97
Deflection Temperature under Load at 1.820 MPa	D 648	°C	55
Vicat Softening Temperature at 10 N	D 1525	°C	151

a) Injection molded specimen according to ASTM D 4101.





Film Properties^{b)}:

	ASTM Method	Units	Values
Secant Modulus 1% (MD/TD)	D 882	MPa	530/520
Tensile Strength at Yield (MD/TD)	D 882	MPa	23/22
Elongation at Yield (MD/TD)	D 882	%	12/11
Haze	D 1003	%	2.9
Gloss 45°	D 2457	-	90
Sealing Initial Temperature	Braskem Method	°C	117

b) 30  thickness film, processed in a 50 mm screw diameter extruder with blow up ratio of 1.3:1 (MD=Machine Direction and TD=Transversal Direction)

