

Metallocene Linear Low Density Polyethylene

XP9100 series

Description

Characteristics	▪ Excellent Toughness and Stiffness ▪ High Clarity and Gloss ▪ Excellent Heat Seal Properties at lower Temperature	▪ Excellent Bubble Stability ▪ Very small amount of Extractables ▪ Good Shrinkage
Applications	▪ Heavy Duty Bags (Fertilizer, Sacks) ▪ Refill Pouch (Detergent, Shampoo) ▪ Shrink Film	
Processing Recommendation	Processing Temperature 170~200°C / BUR 1.5~2.5	
Specification data	Complies with FDA 21 CFR 177.1520	

Physical Properties – Heavy Duty & Shrink Film

Resin Properties	Unit	Test Method	XP9100	XP9100S
Density	g/cm ³	ASTM D1505	0.925	0.927
Melt Index (190°C, 2.16 kg)	g/10min	ASTM D1238	0.8	0.8
Vicat Softening Temperature	°C	ASTM D1525	117	120
Melting Temperature	°C	ASTM D3418	119	122
Additives			AO, AB, PPA	AO, AB, PPA
Film Properties	Unit	Test Method	XP9100	XP9100S
Tensile Strength at Break, MD/TD	kg/cm ²	ASTM D882	580/530	590/540
Elongation at Break, MD/TD	%	ASTM D882	630/650	600/630
Tear Strength, MD/TD	kg/cm	ASTM D1004	140/145	145/155
Dart Impact Strength(A)	gf	ASTM D1709	300	250
Haze	%	ASTM D1003	10	12
Gloss(45°)	-	ASTM D2457	85	85
Seal Initiation Temperature (HGT, 2.8KG, 0.5sec)	°C	Daelim	118	120

1. Film Processing Condition : Φ40mm Blown Film Extruder, 200°C, BUR 2.5, Φ100mm Die, Film thickness 0.050mm
2. Additives : AO (Antioxidant), AB (Anti Blocking Agent), PPA (Polymer Processing Aid)
3. These are typical properties only and are not to be construed as specifications.

*NOTICE: Prior to use for any commercial purpose, the customer is fully responsible for determining its suitability for intended application and for ensuring its disposal practices are in compliance with applicable laws and other governmental enactments. DAELIM assumes no obligation or liability in this regard.

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