

QAMAR

GRADE : FD18N

SPDC LTD.

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Typical Properties

Item	Test Method	Unit	Value
Melt Flow Rate	ASTM D-1238	g/10min	2.0
Density	ASTM D-1505	g/cm ³	0.918
Tensile Strength at Yield	JIS K-6760	Mpa	12
Tensile Strength at Break		Mpa	26
Tensile Elongation at Break		%	900
Stiffness in Flexure	ASTM D-747	Mpa	260
Surface Hardness	ASTM D-2240	Shore D	54
Brittle Temperature	ASTM D-746	degree-C	<-70
Melting Point	DSC Method	degree-C	122
Vicat Softening Point	ASTM D-1525	degree-C	100
Anti-blocking Agent / Slip Agent	-	level	none
Characteristics			basic material
Application			blend

Values in this table represent typical laboratory averages.

Typical Film Properties

Item	Test Method	Unit	Value
Film Thickness		microns	30
Tensile Strength at Break	JIS Z 1702	MD	40
		TD	35
Tensile Elongation at Break	JIS Z 1702	MD	600
		TD	900
Tensile Modules	ISO IR 1184	MD	190
		TD	210
Dart Drop Impact Strength	ASTM D-1709	gms	110
Elmendorf Tear Strength	ASTM D-1922	MD	30
		TD	140
Haze	ASTM D-1003	%	11
Processing	Resin Temperature		180 degree-C
Conditions of Film	Blow up ratio		2.0

Values in this table represent typical laboratory averages. MD : Machine Direction TD : Transverse Direction

Typical Processing Condition of Blown Film

Item	Value
Resin Temperature (degree-C)	170 - 190
Blow up Ratio	2 - 4
Screw Type	LLDPE screw
Die Lip Gap (mm)	2.0 - 3.0
Air Ring	Dual Slit or Single Slit (Wide die)

Figures shown in this table are typical conditions for reference purpose. Adjustment to meet individual machine is necessary.