

MARPOL® LDF 702-T

Low Density Polyethylene

Marco Polo International, Inc.

Message:

MARPOL® LDF 702-T is a specialty LDPE resin designed for foam and blown film applications that require high melt strength or good bubble stability.

General Information			
Features	Foamable		
	Food Contact Acceptable		
	Good Melt Strength		
Uses	Film		
	Foam		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Processing Method	Blown Film		
	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.916	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Toughness			ASTM D882
MD	141	J/cm ³	
TD	148	J/cm ³	
Secant Modulus			ASTM D882
2% Secant, MD	166	MPa	
2% Secant, TD	208	MPa	
Tensile Strength			ASTM D882
MD : Yield	11.7	MPa	
TD : Yield	11.0	MPa	
MD : Break	21.8	MPa	
TD : Break	19.7	MPa	
Tensile Elongation			ASTM D882
MD : Break	450	%	
TD : Break	620	%	
Dart Drop Impact	96	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	320	g	

TD	190	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.2	°C	ASTM D1525
Peak Melting Temperature	218	°C	
Optical	Nominal Value	Unit	Test Method
Gloss	40		ASTM D2457
Haze	16	%	ASTM D1003

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