



Qplast™ QPHD W949F Homopolymer Polyethylene

Qplast[™] QPHD W949F is a high molecular weight HDPE grade designed for high drawdown, producing thin films with excellent processing and physical properties. It offers good stiffness for thin gauge films and meets FDA requirements under 21 CFR 177.1520 for safe food contact.

Supplier			Q plast			
Additive						
Applications				 T-Shirt Bags Multi-Wall Bag Liners Trash Can Liners Heavy Duty Bags Store Bags 		
Resin Properties						
	Typical Value	(English)	Typical Value	(SI)	Test Method	
Density	0.949	g/cm³	0.949	g/cm³	ASTM D792	
Melt Index (190°C/2.16 kg)	0.04	g/10 min	0.04	g/10 min	ASTM D1238	
High Load Melt Index (190°C/21.6 kg)	8.5	g/10 min	8.5	g/10 min	ASTM D1238	
Melting Point	268	°F	131	°C	DSC	
Film Properties						
Tensile Strength at Break MD	9500	psi	66	MPa	ASTM D882	
Tensile Strength at Break TD	7000	psi	48	MPa	ASTM D882	
Elongation at Break MD	290	%	290	%	ASTM D882	
Elongation at Break TD	480	%	480	%	ASTM D882	
Secant Modulus MD — 1% Secant	72000	psi	496	MPa	ASTM D882	
Secant Modulus TD — 1% Secant	125000	psi	862	MPa	ASTM D882	
Dart Drop Impact	590	g	590	g	ASTM D1709	
Elmendorf Tear Strength MD	17	g	17	g	ASTM D1922	
Elmendorf Tear Strength TD	210	g	210	g	ASTM D1922	

Disclaimer

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REV: 2024

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