

# SABIC SABIC<sup>®</sup> F04660

SABIC<sup>®</sup> HDPE F04660 is a homopolymer film grade with a broad processing window and high stiffness. It has good moisture barrier properties and can be blended with LDPE and LLDPE to improve film strength and rigidity. This product is not intended for and must not be used in any pharmaceutical/medical applications.  
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in <sup>3</sup>	ASTM D1505

Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
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	46 g/10 min @Load 21.6 kg, Temperature 190 °C	46 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
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Mechanical Properties	Metric	English	Comments
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Film Elongation at Break, MD	490 %	490 %	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
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Film Elongation at Break, TD	3.0 %	3.0 %	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
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Elmendorf Tear Strength MD	10 g	10 g	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D1922
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Elmendorf Tear Strength TD	800 g	800 g	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D1922
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Dart Drop Test	<= 20.0 g	<= 0.0441 lb	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D1709
Film Tensile Strength at Break, MD	67.0 MPa	9720 psi	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
Film Tensile Strength at Break, TD	37.0 MPa	5370 psi	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
1% Secant Modulus, MD	1250 MPa	181000 psi	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
1% Secant Modulus, TD	1700 MPa	247000 psi	Properties are based on 25 µm film produced at 2.5:1 BUR using 100% F04660.; ASTM D882
<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Vicat Softening Point	129 °C	264 °F	ASTM D1525