

Product Description

F04660 is medium molecular weight high density polyethylene homopolymer specifically designed for giving excellent processability and high stiffness. It has good moisture barrier properties and can be blended with LDPE and LLDPE to improve film strength and rigidity.

Typical Applications

F04660 is recommended for applications where high stiffness is required. It can be used in the middle layer in a co-ex structure or blended with LDPE and LLDPE to increase stiffness and mechanical properties. It has excellent water vapor barrier properties required for certain foods packaging.

Typical data

Properties	Unit	Value ⁽¹⁾	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	0.7	D 1238
@ 190°C & 21.6 kg load		46	
Density @ 23°C	kg/m ³	961	D 1505
Mechanical Properties⁽²⁾			
Tensile Strength @ break, MD	MPa	67	D 882
TD		37	
Tensile Elongation @ break, MD	%	490	D 882
TD		3	
1% Secant Modulus, MD	MPa	1250	D 882
TD		1700	
Dart Impact Strength	g	<20	D 1709
Elmendorf Tear Strength, MD	g	10	D 1922
TD		800	
Thermal Properties			
Vicat Softening Point	°C	129	D 1525

(1) Typical values; not to be construed as specification limits.

(2) Properties are based on 25 µm film produced at 4 BUR using 100% F04660.

Processing Conditions

Melt Temperature: 190 - 220°C

Food Regulation

F04660 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.