

TECHNICAL DATA SHEET

TOTAL 3221

TotalEnergies

Processing

Blown film extrusion, Film extrusion, Sheet extrusion, Blow molding

Special Characteristics

High impact or impact modified

Features

Weldable, Copolymer, Random copolymer

Certifications

Food contact

Applications

Packaging

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	1.8	g/10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Yield strain	15	%	ISO 527
Flexural modulus, 23°C	900	MPa	ISO 178
Izod notched impact strength, +23°C	22	kJ/m ²	ISO 180/1A
Izod notched impact strength	3.6	kJ/m ²	ISO 180/1A
Temperature	0	°C	
Rockwell hardness	R 82		ISO 2039-2
Thermal Properties	Value	Unit	Standard
Vicat softening temperature, A	130	°C	ISO 306
Vicat softening temperature, B	67	°C	ISO 306
Optical Properties	Value	Unit	Standard
Haze	2.1		ISO 14782
Gloss	79		ASTM D 2457
Other Properties	Value	Unit	Standard
Density	902	kg/m ³	ISO 1183
Bulk density	525	kg/m ³	

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Film Properties	Value	Unit	Standard
Stress at yield, parallel	35	MPa	ISO 527-3
Stress at yield, normal	70	MPa	ISO 527-3
Maximum strain, parallel	500	%	ISO 527-3
Dart drop A	35	g	ISO 7765-1
Type of extrusion	blown		
Thickness of specimen	0.04	mm	