

TECHNICAL DATA SHEET

TOTAL 10042

TotalEnergies

Processing

Injection molding

Special Characteristics

Anti-static

Features

Nucleated, Homopolymer

Certifications

Food contact

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	35	g/10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	1700	MPa	ISO 527
Yield stress	35	MPa	ISO 527
Yield strain	8.5	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	1600	MPa	ISO 178
Charpy notched impact strength, +23°C	3.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	3	kJ/m ²	ISO 180/1A
Rockwell hardness	R 98		ISO 2039-2
Thermal Properties	Value	Unit	Standard
Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	57	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
Vicat softening temperature, A	153	°C	ISO 306
Vicat softening temperature, B	90	°C	ISO 306
Other Properties	Value	Unit	Standard
Density	905	kg/m ³	ISO 1183
Bulk density	525	kg/m ³	