

TECHNICAL DATA SHEET

TOTAL 4640

TotalEnergies

Processing

Injection molding

High impact or impact modified

Features

Creep resistance, Nucleated, Copolymer

Special Characteristics

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	3.5	g/10min	ISO 1133
Temperature	230	°C	
Load	2.16	kg	
Mechanical Properties	Value	Unit	Standard
Tensile modulus	1400	MPa	ISO 527
Yield stress	27	MPa	ISO 527
Yield strain	6	%	ISO 527
Poisson's ratio	0.35		ISO 527
Flexural modulus, 23°C	1350	MPa	ISO 178
Charpy notched impact strength, +23°C	25	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	25	kJ/m ²	ISO 180/1A
Izod notched impact strength	6	kJ/m ²	ISO 180/1A
Temperature	-20	°C	
Rockwell hardness	R 86		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	53	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	95	°C	ISO 75-1/-2
Vicat softening temperature, A	140	°C	ISO 306
Vicat softening temperature, B	70	°C	ISO 306
Other Properties	Value	Unit	Standard
Density	905	kg/m ³	ISO 1183
Bulk density	525	kg/m ³	