ExxonMobil™ PP7011L1
Polypropylene Impact Copolymer

Product Description
An impact copolymer resin for extrusion applications with high melt viscosity and excellent low-temperature impact strength. It is suitable for cables, pipes, profiles, sheets and thermoforming.

General
Availability
• Africa & Middle East
• Europe
Features
• High Impact Resistance
• Low Flow
Uses
• Compounding
• Corrugated Pipe
• Electrical/Electronic Applications
• Industrial Applications
Appearance
• Natural Color
Form(s)
• Pellets
Processing Method
• Extrusion
• Extrusion Blow Molding
• Injection Molding
• Profile Extrusion
• Sheet Extrusion
• Thermoforming
Revision Date
• 01/01/2017

Physical
Typical Value (English) Typical Value (SI) Test Based On
Melt Mass-Flow Rate (MFR)
230°C/2.16 kg 1.0 g/10 min 1.0 g/10 min ISO 1133
230°C/5.0 kg 4.0 g/10 min 4.0 g/10 min
Density
0.900 g/cm³ 0.900 g/cm³ ExxonMobil Method

Mechanical
Typical Value (English) Typical Value (SI) Test Based On
Tensile Stress at Yield 3680 psi 25.4 MPa ISO 527-2/50
Tensile Strain at Yield 10 % 10 %
Tensile Modulus – Secant (73°F (23°C)) 165000 psi 1140 MPa ISO 527-2/1
Flexural Modulus 161000 psi 1110 MPa ISO 178

Impact
Typical Value (English) Typical Value (SI) Test Based On
Notched Izod Impact Strength
73°F (23°C), Partial Break 15 ft·lb/in² 31 kJ/m² ISO 180
Charpy Notched Impact Strength
-4°F (-20°C) 1.7 ft·lb/in² 3.6 kJ/m² ISO 179/1eA
32°F (0°C) 2.4 ft·lb/in² 5.1 kJ/m²
73°F (23°C) 14 ft·lb/in² 29 kJ/m²

Thermal
Typical Value (English) Typical Value (SI) Test Based On
Heat Deflection Temperature (1.80 MPa) 118 °F 47.8 °C ISO 75-2/A
Heat Deflection Temperature (0.45 MPa) 169 °F 76.0 °C ISO 75-2/B
Vicat Softening Temperature 295 °F 146 °C ISO 306/A50

Hardness
Typical Value (English) Typical Value (SI) Test Based On
Shore Hardness (Shore D) 64 64 ISO 868

Legal Statement
This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

Notes
Typical properties: these are not to be construed as specifications.

Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.