

ExxonMobil™ PP7011L1

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

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

General Information			
Features	Impact resistance, high		
	Low liquidity		
Uses	Bellows		
	Electrical/Electronic Applications		
	Composite		
	Industrial application		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Extrusion blow molding		
	Sheet extrusion molding		
	Thermoforming		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	1.2	g/10 min	ISO 1133
230°C/5.0 kg	4.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant	1270	MPa	ISO 527-2/1
Tensile Stress (Yield)	26.9	MPa	ISO 527-2/50
Tensile Strain (Yield)	10	%	ISO 527-2/50
Flexural Modulus - Secant	1240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C, complete fracture	3.8	kJ/m ²	ISO 179

0°C, complete fracture	5.4	kJ/m ²	ISO 179
23°C, local fracture	29	kJ/m ²	ISO 179
Notched Izod Impact (23°C, Partial Break)	32	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	79.6	°C	ISO 75-2/B
1.8 MPa, not annealed	50.2	°C	ISO 75-2/A
Vicat Softening Temperature	152	°C	ISO 306/A50
Melting Temperature (DSC)	161	°C	ISO 3146
Peak Crystallization Temperature (DSC)	112	°C	ISO 3146
Legal statement			

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