ExxonMobil Signature Polymers

ExxonMobil™ PP7054L1

Polypropylene Impact Copolymer

Product Description

An impact copolymer resin with medium flow. It is suitable for molding applications like consumer products, closures, containers, toys and rigid packaging applications.

General

Availability [1]	▪ Africa & Middle East	▪ Europe	
Features	▪ Good Flow		
Uses	▪ Battery Cases ▪ Construction Applications ▪ Containers	▪ Crates ▪ Industrial Applications ▪ Pails	▪ Rigid Packaging ▪ Tool/Tote Box ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Molding	
Revision Date	▪ 11/25/2022		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	16	g/10 min	ISO 1133
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	3500	psi	24.1	MPa	ISO 527-2/50
Tensile Strain at Yield	4.6	%	4.6	%	ISO 527-2/50
Tensile Modulus - Secant	187000	psi	1290	MPa	ISO 527-1/1
Flexural Modulus	177000	psi	1220	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact Strength (73°F (23°C))	4.2	ft·lb/in²	8.8	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	2.3	ft·lb/in²	4.9	kJ/m²	
32°F (0°C)	3.1	ft·lb/in²	6.6	kJ/m²	
73°F (23°C)	5.2	ft·lb/in²	11	kJ/m²	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	123	°F	50.3	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	188	°F	86.8	°C	ISO 75-2/B
Vicat Softening Temperature	300	°F	149	°C	ISO 306/A50

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Shore Hardness (Shore D)	60		60		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.

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

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For additional technical, sales and order assistance: Contact Us

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