

Technical Data Sheet



Pro-fax EP649U

Polypropylene, Impact Copolymer

Product Description

Pro-fax EP649U high melt flow, impact polypropylene copolymer is available in pellet form. This resin is typically used in thin-wall injection molding applications and offers a very good stiffness/impact balance.

Regulatory Status

For regulatory compliance information, see *Pro-fax* EP649U Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS). To obtain copies of these documents, please submit the [Request Form](#).

Status	Commercial: Active
Availability	North America
Application	TWIM Food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Contains Antistat; Good Impact Resistance; Good Stiffness; High Flow; Nucleated

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (230 °C/2.16 kg)	75	g/10 min	75	g/10 min	ASTM D1238
Density, (23 °C)	0.9	g/cm³	0.9	g/cm³	ASTM D792
Mechanical					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	205000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1430	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	3800	psi			ASTM D638
(50 mm/min)			26	MPa	ASTM D638
Tensile Elongation at Yield	4	%	4	%	ASTM D638
Impact					
Notched Izod Impact Strength					
(73 °F, Method A)	0.8	ft-lb/in			ASTM D256
(23 °C, Method A)			43	J/m	ASTM D256
Thermal					
Deflection Temperature Under Load					
(66 psi, Unannealed)	235	°F			ASTM D648
(0.45 MPa, Unannealed)			113	°C	ASTM D648



Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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