

Technical Data Sheet

Diamond POL051LCLEARNAT



Polycarbonate

Product Description

Diamond POL051LCLEARNAT is a Polycarbonate material. Features include: Medium Viscosity.

Regulatory Status

For regulatory compliance information, see POL051LCLEARNAT [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Attribute	Medium Viscosity
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/1.2 kg)	15	g/10 min	ASTM D1238
Density - Specific Gravity	1.2	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	110	%	ASTM D638
Tensile Strength at Yield	70	MPa	ASTM D638
Tensile Strength at Break	70	MPa	ASTM D638
Flexural Modulus	2700	MPa	ASTM D790
Tensile Elongation at Break	150	%	ASTM D638
Tensile Modulus	1800	MPa	ASTM D638
Flexural Strength	98	MPa	ASTM D790
Impact			
Notched Izod Impact	900	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	121		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	122	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	140	°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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