Technical Data Sheet

Polyaxis PD 3000-31G BLACK

Polypropylene Copolymer

Product Description

Polyaxis PD 3000 is a polypropylene specifically designed for rotational molding. A long term UV package and robust antioxidant system allow this material to be used in a variety of applications.

Regulatory Status

For regulatory compliance information, see *Polyaxis* PD 3000-31G BLACK Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Processing Method	Rotomolding
Forms	Pellets; Powder
Appearance	Black; Natural Color
Additive	Long Term UV-15 Stabilizer
Application	Automotive Under the Hood; Bottles; Containers; High Temperature Applications

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	20	g/10 min	ASTM D1238
Density - Specific Gravity	0.9	g/cm³	ASTM D792
Mechanical			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	25.9	MPa	ASTM D638
Flexural Modulus, (Rotational Molded, 1% Secant)	1290	MPa	ASTM D790
Environmental Stress Crack Resistance, (Compression Molded, F50, 100% Igepal)	>1000	hr	ASTM D1693
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	40	%	ASTM D638
Impact			
Impact Strength			
(23 °C, 6.35 mm, Rotational Molded)	27	J	ARM
(23 °C, 3.18 mm, Rotational Molded)	20	J	ARM
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Rotational Molded)	49.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi), (Rotational Molded)	105	°C	ASTM D648

Manufacturer website: https://www.lyondellbasell.com/en/

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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