

Polyaxis PD 2000R

Polypropylene Copolymer LyondellBasell Industries Rotomolding

Product Description			
•	opylene specifically designed for rotationa	ıl molding.	
General			
Material Status	 Commercial: Active 		
Availability	 North America 		
Additive	 UV Stabilizer: No 		
Uses	Bottles	 Containers 	 High Temperature Applications
Appearance	 Natural Color 		
Forms	 Pellets 	 Powder 	
Processing Method	 Rotational Molding 		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity 1	0.902	0.900 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
100% Igepal, Compression Molded, F50	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield, Rotational Molded)	3760 psi	25.9 MPa	ASTM D638
Tensile Elongation ²			ASTM D638
Break, Rotational Molded	40 %	40 %	
Flexural Modulus - 1% Secant (Rotational Molded)	187000 psi	1290 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Impact Strength			ARM
73°F (23°C), 0.125 in (3.18 mm), Rotational Molded	15 ft·lb	20 J	
73°F (23°C), 0.250 in (6.35 mm), Rotational Molded	15 ft·lb	20 J	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Rotational Molded	221 °F	105°C	
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm), Rotational Molded	121 °F	49.6 °C	

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
 Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
 Keep material completely dry for good processing

Company Information

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

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¹ Compression Molded

² 2.0 in/min (51 mm/min)

Technical Data Sheet



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