

Technical Data Sheet

**Polyaxis PD 3000-31 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.

<b>Processing Method</b>	Rotomolding
<b>Forms</b>	Pellets; Powder
<b>Appearance</b>	Black; Natural Color
<b>Additive</b>	Long Term UV-15 Stabilizer
<b>Application</b>	Automotive Under the Hood; Bottles; Containers; High Temperature Applications

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	20	g/10 min	ASTM D1238
Density - Specific Gravity	0.9	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (51 mm/min, Rotational Molded)	25.9	MPa	ASTM D638
Environmental Stress Crack Resistance, (Compression Molded, F50, 100% Igepal)	>1000	hr	ASTM D1693
Flexural Modulus, (Rotational Molded, 1% Secant)	1290	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min, Rotational Molded)	40	%	ASTM D638
<b>Impact</b>			
Impact Strength			
(23 °C, 6.35 mm, Rotational Molded)	27	J	ARM
(23 °C, 3.18 mm, Rotational Molded)	20	J	ARM
<b>Thermal</b>			
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