

## A. Schulman POLYAXIS® CP813-31 General-Purpose Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Rotational Molding Grade

### Material Notes:

Description Polyaxis CP 813-31 is a general-purpose black linear low density polyethylene compound offering quick cycles and part to part consistency. NOTE: Physical properties are based on rotationally molded samples from unpigmented resin. Density and ESCR tests were performed on compression molded samples. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-POLYAXIS-CP813-31-General-Purpose-Polyethylene.php](http://www.lookpolymers.com/polymer_A-Schulman-POLYAXIS-CP813-31-General-Purpose-Polyethylene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.935 g/cc	0.935 g/cc	ASTM D792
ESCR 100% Igepal®	>= 1000 hour	>= 1000 hour	ASTM D1693
Melt Index of Compound	5.5 - 7.0 g/10 min	5.5 - 7.0 g/10 min	2.16/190; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	15.9 MPa	2300 psi	2"/min; ASTM D638
Elongation at Break	400 %	400 %	2"/min; ASTM D638
Flexural Modulus	0.538 GPa	78.0 ksi	at 1% secant modulus; ASTM D790
Impact Test	54.2 J @Thickness 3.17 mm, Temperature -40.0 °C	40.0 ft-lb @Thickness 0.125 in, Temperature -40.0 °F	ARM impact

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	49.0 °C	120 °F	ASTM D648

Descriptive Properties	Value	Comments
UV Stabilization	UV-8	

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