

H1140NU-30

Post Consumer Recycled Resin for Rotomolding application

Special Characteristics : H1140NU-30 is a formulated rotational Post Consumer Recycle (PCR) content and liner low density polyethylene with UV stabilizers which designed for rotational molding application. This grade provides easy of processing, outstanding physical properties and consistent long-term performance.

Typical Applications : Furniture and Decoration

Color : Any color

Typical Properties (Based on material properties before color compounding):

Properties	H1140NU-30	Unit	Test Method
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Physical Properties

Melt Flow Rate (2.16 kg/190°C)	3.5	g/10 min	ASTM D1238
Density	0.946	g/cm ³	ASTM D792
Vicat Softening Temperature	119	°C	ASTM D1525
Heat Distortion Temperature at 0.455 MPa	64	°C	ASTM D648

Mechanical Properties (Based on compression specimens)

Tensile Strength at Yield	22	MPa	ASTM D638
Tensile Strength at Break	25	MPa	ASTM D638
Elongation at break	1000	%	ASTM D638
Flexural Modulus	900	MPa	ASTM D790
Durometer Hardness	60	Shore D	ASTM D1693
ESCR, F ₅₀ (Condition A, 100 % Igepal)	24	Hours	ASTM D1693
Arm Impact Strength at -40C (3 mm Rotomolded sample)	30	J	ARM Method

Recommendation:

The recommended oven temperature is in the range of 240-260 °C

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