

Agru Concrete Embedment Profile (Agru CEP)



Material Specifications

Agru America Concrete Embedment Profile (Agru CEP) shall be extruded from black high density polyethylene copolymer offering exceptional stress cracking resistance and impact performance.

The resin shall be manufactured by ExxonMobil Chemical with NSF and UL recognition.

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.945 g/cm ³	.945 g/cm ³	ASTM D4883
Melt Index (190°C/2.16 kg)	.35 g/10 min	0.35 g/10 min	ASTM D1238

Thermal Typical	Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	< -105 °F	< -76 °C	ASTM D746
Vicat Softening Temperature	250 °F	121 °C	ASTM D1525

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	3480 psi	24.0 MPa	ASTM D638
Elongation at Break	900%	900%	ASTM D638
Flexural Modulus	151000 psi	1040 MPa	ASTM D790

Environmental Stress-Crack Resistance (100% Igepal)
> 1000 hr > 1000 hr ASTM D1693

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Impact Strength	110 ft·lb/in ²	231 kJ/m ²	ASTM D1822

Film Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Secant Modulus MD	12200 psi	84.0 MPa	ASTM D882