

TechResin[®] 2352

High Molecular Weight High Density Polyethylene (HMW-HDPE) Bimodal Resin Designed For Non-Pressure Pipe Extrusion Applications

TechResin[®] 2352 is a high performance copolymer that is designed for the most demanding requirements of corrugated pipe applications.

TechResin[®] 2352 meets the requirements of the PPI third party certification program for use in AASHTO M294 corrugated pipe.

TechResin[®] 2352 has a cell class of 436460/446460 per ASTM D3350-05.

Suggested Applications:

Highway Drainage Pipe

Agricultural Drainage Pipe

Storm Water Drainage Pipe

Nominal Physical Properties:

PROPERTY** (Natural Resin)	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.953	g/cc	0.953
Melt Index, Condition E, 190°C/2.16 kg (MI)	D1238	g/10 min.	0.15	g/10 min.	0.15
Condition F, 190°C/21.6 kg (HLMI)		g/10 min.	21.0	g/10 min.	21.0
Environmental Stress Crack Resistance (ESCR) Condition B (100% Igepal), F ₅₀	D1693	h	>150	h	>150
Tensile Yield Strength, @ Yield 2" (50 mm) per min.	D638 Type IV	psi.	3900	MPa	27
Ultimate Elongation, 2" (50 mm) per min.	D638 Type IV	%	>600	%	>600
Flexural Modulus	D790	psi.	180,000	MPa	1230
Brittleness Temperature	D746	°F	<-130	°C	<-90
ESCR by NCLS	F2136	h	>24	h	>24

** Physical properties reported herein were determined on compression molded specimens prepared in accordance with Procedure C of ASTM D1928

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

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