

## TechResin<sup>®</sup> 2314

### **High Density Polyethylene for Pipe Non-Pressure Pipe Extrusion Applications**

TechResin<sup>®</sup> 2314 is a high performance copolymer that is designed for the most demanding requirements of non-pressure pipe applications. It has good long-term hoop strength performance, very high melt strength, and outstanding toughness even at low temperatures.

TechResin<sup>®</sup> 2314 meets all requirements of ASTM D4976 – PE 235

TechResin<sup>®</sup> 2314 meets the requirements of ASTM F 2160 for use in solid wall HDPE conduit based pipe.

*Suggested Applications:*

Telecommunications Conduit  
Non-Pressure Pipe Applications

*Nominal Physical Properties:*

PROPERTY* (Natural Resin)	ASTM TEST METHOD	ENGLISH		SI	
		Unit	Value	Unit	Value
Density	D1505	g/cc	0.944	g/cc	0.944
Melt Index, Condition E, 190°C/2.16 kg (MI)	D1238	g/10 min.	0.16	g/10 min.	0.16
Environmental Stress Crack Resistance (ESCR) Condition A, B, C (100% Igepal), F <sub>50</sub>	D1693	h	>1000	h	>1000
Tensile Yield Strength, @ Yield	D638	psi.	3200	MPa	22
@ Break	Type IV	psi.	5000	MPa	34
2" (50 mm) per min.					
Ultimate Elongation, 2" (50 mm) per min.	D638 Type IV	%	>500	%	>500
Flexural Modulus	D3350	psi.	110,000	MPa	760
	D790	psi.	140,000	MPa	960
Brittleness Temperature	D746	°F	<-130	°C	<-90

\* 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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