

Terluran KR2910

Acrylonitrile Butadiene Styrene (ABS)

TECHNICAL DATASHEET

DESCRIPTION

Terluran® KR 2910 acrylonitrile/butadiene/styrene copolymer (ABS) is a general purpose, extrusion grade resin with good impact resistance and processing characteristics. Terluran® KR 2910 is intended for use as drain, waste and vent (DWV) applications.

FEATURES

- High toughness
- Very high impact
- Medium flow
- Great mechanical strength and rigidity
- High impact at sub-zero temperatures

APPLICATIONS

- Extrusion
- NSF/ ANSI 14
- Sewer and continuous waste

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Flow Rate, 220 °C/10 kg	ASTM D 1238	g/10 min	8
Mechanical Properties			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	8.4
Izod Notched Impact Strength, -18 °C (0 °F)	ASTM D 256	ft-lb/in	3.4
Izod Notched Impact Strength, -30 °C (-22 °F)	ASTM D 256	ft-lb/in	2.2
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	21
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	6240
Tensile Yield Strength (TD)	ASTM D 882	psi	5650
Tensile Modulus	ASTM D 638	psi x 10 ³	290
Elongation, Failure	ASTM D 638	%	3.5
Flexural Strength, 23 °C	ASTM D 790		9570
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 ³	297
Hardness, Rockwell	ASTM D 785	R scale	95
Thermal Properties			
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°F	201
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	186

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Property, Test Condition	Standard	Unit	Values
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	201
DTUL @ 264 psi - Annealed	ASTM D 648	°F	208
DTUL @ 66 psi - Annealed	ASTM D 648	°F	215
Other Properties			
Density (ASTM)	ASTM D 792	g/cm ³	1.03
Water Absorption, Saturated at 23 °C	ASTM D 570	%	1.03
Processing			
Linear Mold Shrinkage	ASTM D 955	in/in	0 - 0.01
Drying Temperature	-	°F	160 - 180
Drying Time	-	h	2 - 4