

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.

ASTM D3965 Pipe and Fitting Cell Classifications:

- Terluran® KR2910 Black 10009: 4-2-4-2-2
- Terluran® KR2910 Natural: 4-3-4-2-2

FEATURES

- High toughness
- Very high impact
- Medium flow
- Great mechanical strength and rigidity
- High impact at sub-zero temperatures
- ASTM D3965 Pipe and Fitting Cell Classification:

APPLICATIONS

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

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Property, Test Condition	Standard	Unit	Values
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
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

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

DISCLAIMER

The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.

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