Technical Data Sheet

Alcryn® ALR 7225

Melt Processable Rubber
Engineering Plastics

lyondellbasell

Product Description
Alcryn® ALR 7225 MPR has improved heat resistance over standard Alcryn grades and has an upper temperature limit of 136°C, while retaining at least 85% of original tensile properties. ALR 7225 is designed for the extrusion process, specifically Wire & Cable applications and should be considered where increased temperature resistance is required.

General	
Features	• High Heat Resistance
Uses	• Wire & Cable Applications
Agency Ratings	• EU 2002/96/EC (WEEE)
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.30	1.30 g/cm³	ASTM D792
--	1.30 g/cm³	1.30 g/cm³	ISO 1183
Elastomers	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Stress (100% Strain)	703 psi	4.85 MPa	ASTM D412 ISO 37
Tensile Stress (Yield)	1400 psi	9.64 MPa	ISO 37
Tensile Elongation (Break)	370 %	370 %	ASTM D412 ISO 37
Tear Strength [1] (75°F (24°C))	227 lbf/in	39.8 kN/m	ASTM D624
Compression Set			
75°F (24°C), 22 hr	32 %	32 %	ASTM D395B
158°F (70°C), 22 hr	73 %	73 %	ASTM D395B
75°F (24°C), 22 hr [2]	32 %	32 %	ISO 815
158°F (70°C), 22 hr [2]	73 %	73 %	ISO 815
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness (Shore A)	82	82	ASTM D2240 ISO 868
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	7.3E+11 ohms	7.3E+11 ohms	ASTM D257
Volume Resistivity	4.4E+11 ohms·cm	4.4E+11 ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
7.50E-5 in (0.00191 mm)	11 V/mil	0.45 kV/mm	

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Additional Information

The value listed as Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.
The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.
The value listed as Shore Hardness, ISO 868, was tested in accordance with ISO 48.
Permanent Set (Tension), ASTM D412: 15%
100% Modulus, ASTM D412, ISO 37, Physical Retention After 7 Days at 277°F: 117%
Tensile Strength, ASTM D412, ISO 37, DIN 53504, Physical Retention After 7 Days at 277°F: 99%
Elongation At Break, ASTM D412, ISO 37, Physical Retention After 7 Days at 277°F: 131%
Viscosity, ASTM D3835, 300 s-1 at 374°F: 628 Pa*s
Typical Processing Temperature: 350° F
Clash-Berg Stiffness Temperature, ASTM D1043, 10000 psi: -19° C
Volume Change, After 7 days, 100°C, Water: 34%
Volume Change, After 7 days, 24°C, Fuel B: 36%
Volume Change, After 7 days, 100°C, ASTM #1 Oil: -7%
Volume Change, After 7 days, 100°C, IRM 903 Oil: 28%
Volume Change, After 4 days, 100°C, ASTM #2 Oil: 9%
Weight Change, After 7 days, 100°C, Water: 25%
Weight Change, After 7 days, 24°C, Fuel B: 18%
Weight Change, After 7 days, 100°C, ASTM #1 Oil: -6%
Weight Change, After 7 days, 100°C, IRM 903 Oil: 18%
Weight Change, After 4 days, 100°C, ASTM #2 Oil: 6%

Notes

[1] Die C

[2] Type B

Notes

These are typical property values not to be construed as specification limits.