Alcryn® ALR 7225

Melt Processable Rubber

Advanced Polymer Alloys

Message:

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 Information			
Features	Heat resistance, high		
Uses	Wire and cable applications		
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792, ISO 1183
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A)	82		ASTM D2240, ISO 868
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (100% Strain)	4.85	MPa	ASTM D412, ISO 37
Tensile Stress (Yield)	9.64	MPa	ISO 37
Tensile Elongation (Break)	370	%	ASTM D412, ISO 37
Tear Strength [1] (24°C)	39.8	kN/m	ASTM D624
Compression Set			
24°C, 22 hr	32	%	ASTM D395B
70°C, 22 hr	73	%	ASTM D395B
24°C, 22 hr [2]	32	%	ISO 815
70°C, 22 hr [3]	73	%	ISO 815
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	7.3E+11	ohms	ASTM D257
Volume Resistivity	4.4E+11	ohms·cm	ASTM D257
Dielectric Strength (0.00191 mm)	0.45	kV/mm	ASTM D149

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*sTypical Processing Temperature: 350° FClash-Berg Stiffness Temperature, ASTM D1043, 10000 psi: -19° CVolume 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%

NOTE	
1.	C mould
2.	Type B
3.	Type B

Recommended distributors for this material

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