HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Technical Data Sheet

Alcryn 2250 UT

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Features	• Fast Molding Cycle • General Purpose • High Flow	• High Heat Resistance • Noise Damping • Oil Resistant	• Ozone Resistant • Recyclable Material • Vibration Damping
Uses	• Cable Jacketing • Coating Applications • Fabric Coatings • Flexible Grips • Gaskets	• General Purpose • Handles • Hose • Overmolding • Profiles	• Seals • Tubing • Weatherstripping • Wire & Cable Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blow Molding • Extrusion	• Injection Molding • Vacuum Forming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.06	1.06 g/cm³	ASTM D471
--	1.06 g/cm³	1.06 g/cm³	ISO 2781
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 G, Cs-17 Wheel	5.00 mg	5.00 mg	
Torsion Modulus [1]			ASTM D1043
-4°f (-20°c), 74.8 Mil (1.90 Mm)	377 psi	2.60 MPa	
75°f (24°c), 74.8 Mil (1.90 Mm)	276 psi	1.90 MPa	
Elastomers	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Set [2]	7 %	7 %	ASTM D412
Tensile Stress			
100% Strain, 0.0748 In (1.90 Mm) [1]	276 psi	1.90 MPa	ASTM D412 ISO 37
100% Strain, 257°f (125°c), 0.0748 In (1.90 Mm) [3]	232 psi	1.60 MPa	ASTM D573 ISO 188
Tensile Strength			
Yield, 0.0748 In (1.90 Mm) [1]	986 psi	6.80 MPa	ASTM D412 ISO 37
Yield, 257°f (125°c), 0.0748 In (1.90 Mm) [3]	928 psi	6.40 MPa	ASTM D573 ISO 188
Tensile Elongation			
Break, 0.0748 In (1.90 Mm) [1]	420 %	420 %	ASTM D412 ISO 37
Break, 257°f (125°c), 0.0748 In (1.90 Mm) [3]	450 %	450 %	ASTM D573 ISO 188
Tear Strength [4, 1] (0.0748 In (1.90 Mm))	110 lbf/in	19.2 kN/m	ASTM D624
Compression Set [5]			ASTM D395B ISO 815
75°f (24°c), 22 Hr	15 %	15 %	
212°f (100°c), 22 Hr	56 %	56 %	
Clash-Berg Modulus (-15°f (-26°c))	10000 psi	68.9 MPa	ASTM D1043

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Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240 ISO 868
Shore A, 0.0748 In (1.90 Mm), Compression Molded	47	47	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Brittleness Temperature	-132 °F	-91.0 °C	ASTM D746 ISO 812
Aging	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Change in Durometer Hardness in Air [2]			ASTM D573 ISO 188
Shore A, 257°f (125°c), 168 Hr	-2.0	-2.0	
Change in Volume [2]			ASTM D471 ISO 1817
81°f (27°c), 168 Hr, In Reference Fuel B	24 %	24 %	
212°f (100°c), 168 Hr, In Astm #1 Oil	-39 %	-39 %	
212°f (100°c), 168 Hr, In Irm 903 Oil	32 %	32 %	
212°f (100°c), 168 Hr, In Water	7.0 %	7.0 %	
Fill Analysis	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Melt Viscosity (374°f (190°c), 300 Sec^-1)	115 Pa·s	115 Pa·s	ASTM D3835

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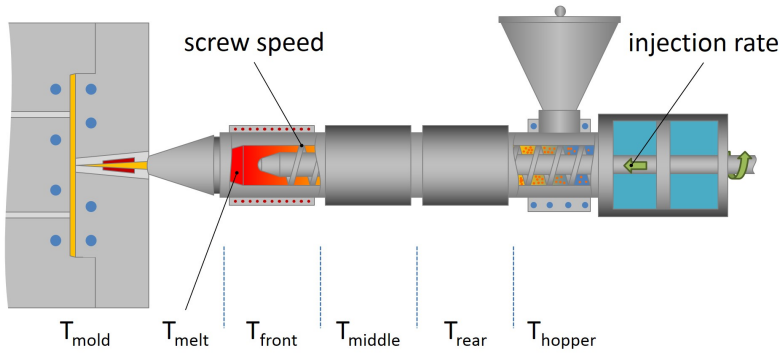

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	331 °F	166 °C

Notes

[1] Compression Molded

[2] 1.9 mm, Compression Molded

[3] 7 days, Compression Molded

[4] Die C

[5] Type I pellets, 12.7 mm diameter, plied up from 1.9 mm slabs

Notes

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