

Technical Data Sheet

Alcryn 2245 TR

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General			
Additive	• UV Stabilizer		
Features	• Good Weather Resistance • High Flow • High Heat Resistance	• Noise Damping • Oil Resistant • Ozone Resistant	• UV Resistant • Vibration Damping
Uses	• Cable Jacketing • Engineering Parts • Fabrics • Gaskets	• Handles • Hose • Seals • Sheet	• Tubing • Weatherstripping • Wire Jacketing
Agency Ratings	• EU 2002/96/EC (WEEE)		
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blow Molding • Compression Molding	• Extrusion • Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.06	1.06 g/cm ³	ASTM D792
--	1.06 g/cm ³	1.06 g/cm ³	ISO 1183

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			ASTM D638 ISO 527-1
0.0750 In (1.91 Mm), Compression Molded	280 psi	1.93 MPa	
Tensile Strength			ASTM D638 ISO 527-2
Yield, 0.0750 In (1.91 Mm), Compression Molded	1000 psi	6.89 MPa	
Tensile Elongation			ASTM D638 ISO 527-2
Break, 0.0750 In (1.91 Mm), Compression Molded	420 %	420 %	
Taber Abrasion Resistance			ASTM D1044
1000 Cycles, 1000 G, Cs-17 Wheel	5.00 mg	5.00 mg	

Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Set	7 %	7 %	ASTM D412
Tear Strength ¹ (75°F (24°C))	110 lbf/in	19.3 kN/m	ASTM D624
Compression Set			ASTM D395B ISO 815
75°F (24°C), 22 Hr	15 %	15 %	
212°F (100°C), 22 Hr	56 %	56 %	
Clash-Berg Modulus (-78°F (-61°C))	10000 psi	68.9 MPa	ASTM D1043

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0750 In (1.91 Mm), Compression Molded	47	47	
IRHD Hardness	47	47	ISO 48

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-132 °F	-91.1 °C	ASTM D746 ISO 974

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Aging	Nominal Value (English)	Nominal Value (SI)	Test Method
Change in Shore Hardness in Air 257°F (125°C), 168 Hr	45	45	ISO 188
Change in Ultimate Elongation 257°F (125°C), 168 Hr	450 %	450 %	ASTM D471
Change in Durometer Hardness 257°F (125°C), 168 Hr	45	45	ASTM D471
Change in Volume 75°F (24°C), 168 Hr, In Reference Fuel B	24 %	24 %	ASTM D471
212°F (100°C), 168 Hr, In Astm #1 Oil	-39 %	-39 %	
212°F (100°C), 168 Hr, In Astm #3 Oil	32 %	32 %	
212°F (100°C), 168 Hr, In Water	7.0 %	7.0 %	

Additional Information

The value listed as Density-Specific Gravity, ASTM D792, was tested in accordance with ASTM D471.

Torsion Modulus, ASTM D1043, 75°F: 290psi

Aging Tensile Strength, ASTM D573, 7 days, 257°F: 940psi

Torsion Modulus, ASTM D1043, -4°F: 380psi

Aging 100% Modulus, ASTM D573, 7 days, 257 °F: 240psi

Aging Elongation At Break, ASTM D573 and ISO 188: 450%

Fluid Resistance 7 Days in water, ISO 1817, at 212 °F: 7%

Fluid Resistance 7 Days in ASTM Oil no. 1, ISO 1817, at 212 °F: -39%

Fluid Resistance 7 Days in IRM 903 Oil no. 3, ISO 1817, at 212 °F: 32%

Fluid Resistance 7 Days in ASTM Ref. Fuel no. B, ISO 1817, at 75 °F: 24%

Rheological Viscosity, ASTM D3835, 1/300s at 374°F: 115Pa-s

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Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	330 °F	166 °C

Notes

¹ Die C

Notes

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