

Technical Data Sheet

Alcryn 2165 TR

Melt Processable Rubber
LyondellBasell Industries
Engineering Plastics

General				
Features	• Abrasion Resistant • Chemical Resistant	• Good Tear Strength • High Flow	• High Friction	
Uses	• Automotive Interior Parts • Cable Jacketing • Gaskets	• Handles • Hose • Seals	• Tubing • Weatherstripping • Wire Jacketing	
Agency Ratings	• EU 2002/96/EC (WEEE)			
RoHS Compliance	• RoHS Compliant			
Appearance	• Translucent			
Forms	• Pellets			

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.40	1.40 g/cm ³	ASTM D792
--	1.40 g/cm ³	1.40 g/cm ³	ISO 1183
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			
100% Strain	450 psi	3.10 MPa	ASTM D412
100% Strain, 0.0748 In (1.90 Mm)	450 psi	3.10 MPa	ISO 37
Tensile Strength			ASTM D412
Break, 0.0748 In (1.90 Mm)	1770 psi	12.2 MPa	ISO 37
Tensile Elongation			
Break	570 %	570 %	ASTM D412
Break, 0.0748 In (1.90 Mm)	570 %	570 %	ISO 37
Tear Strength ¹ (75°F (24°C))	263 lbf/in	46.0 kN/m	ASTM D624
Compression Set			ASTM D395
75°F (24°C), 22 Hr	34 %	34 %	ISO 815
212°F (100°C), 22 Hr	83 %	83 %	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, 0.0748 In (1.90 Mm), Compression Molded	66	66	ISO 868

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, Compression Molding, 1.9 mm: 13%	
100% Modulus, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 109%	
Tensile Strength, ASTM D412, ISO 37, DIN 53504, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 96%	
Elongation At Break, ASTM D412, ISO 37, Physical Retention After 7 Days at 125°C, Compression Molding, 1.9 mm: 91%	
Hardness, ISO 48, Physical Retention After 7 Days at 125°C, Shore A, Compression Molding, 1.9 mm: 60	
Viscosity, ASTM D3835, 300 s-1 at 190°C, Compression Molding, 1.9 mm: 232 Pa*s	
Typical Processing Temperature, Compression Molding, 1.9 mm: 177° C	
Volume Change, ASTM D471, ISO 1817, After 7 days, 100°C, Water, Compression Molding, 1.9 mm: 7%	
Volume Change, After 7 days, ASTM D471, ISO 1817, 24°C, Fuel B, Compression Molding, 1.9 mm: 19%	
Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, ASTM #1 Oil, Compression Molding, 1.9 mm: -16%	
Volume Change, After 7 days, ASTM D471, ISO 1817, 100°C, IRM 903 Oil #3, Compression Molding, 1.9 mm: 9%	

Notes

¹ Die C