

Alcryn® 2380 NC

Melt Processable Rubber

Advanced Polymer Alloys

Message:

Alcryn® 2380 NC is a Melt Processable Rubber (MPR) material. It is available in Asia Pacific, Europe, or North America.

Important attributes of Alcryn® 2380 NC are:

RoHS Compliant

WEEE Compliant

General Information			
Agency Ratings	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792, ISO 1183
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	79		ASTM D2240, ISO 868
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance			ASTM D1044
1000 g, CS-17 Wheel	0.00600	mg	
1000 g, CS-18 Wheel	0.293	mg	
Elastomers	Nominal Value	Unit	Test Method
Tensile Set	13	%	ASTM D412
Tensile Stress (100% Strain)	5.03	MPa	ASTM D412, ISO 37
Tensile Strength (Yield)	13.8	MPa	ASTM D412, ISO 37
Tensile Elongation (Break)	420	%	ASTM D412, ISO 37
Tear Strength			
24°C ¹	43.8	kN/m	ASTM D624
24°C	44	kN/m	ISO 34-1
Compression Set			
24°C, 22 hr	22	%	ASTM D395A
70°C, 22 hr	63	%	ASTM D395A
100°C, 22 hr	70	%	ASTM D395A
24°C, 22 hr ²	22	%	ISO 815
70°C, 22 hr ³	63	%	ISO 815
100°C, 22 hr ⁴	70	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air			
125°C, 168 hr	110	%	ASTM D573, ISO 188
100% Strain, 125°C, 168 hr	190	%	ASTM D573

100% Strain 125°C, 168 hr	190	%	ISO 188
Change in Ultimate Elongation in Air (125°C, 168 hr)	73	%	ASTM D573, ISO 188
Change in Volume			
100°C, 168 hr, in ASTM Oil #1	-13	%	ASTM D471
100°C, 168 hr, in IRM 903 Oil #3	0.0	%	ASTM D471
100°C, 168 hr, in Water	-26	%	ASTM D471, ISO 1817
100°C, 168 hr, in ASTM #1 Oil	-13	%	ISO 1817
100°C, 57120 hr, in IRM 903 Oil #3	0.0	%	ISO 1817
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-17.0	°C	ASTM D746, ISO 812
Fill Analysis	Nominal Value	Unit	Test Method
Apparent Viscosity (190°C, 300 sec ⁻¹)	500	Pa·s	ASTM D3835
Injection	Nominal Value	Unit	
Processing (Melt) Temp	177	°C	
NOTE			
1.	Die C		
2.	Type A		
3.	Type A		
4.	Type A		

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