

Advanced Polymer Alloys DURACRYN 8070 NC Thermoplastic Rubber

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO)

Material Notes:

Information provided by Advanced Polymer Alloys

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Polymer-Alloys-DURACRYN-8070-NC-Thermoplastic-Rubber.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D471; ISO 2781; DIN 53479
Viscosity	300000 cP	300000 cP	ASTM D3835
	@Shear Rate 300 1/s, Temperature 190 °C	@Shear Rate 300 1/s, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	69	69	ASTM D2240; ISO 48; DIN 53505
Tensile Strength, Ultimate	14.5 MPa	2100 psi	ASTM D412; ISO 37; DIN 53504
	15.20 MPa	2205 psi	After 7 days at 257°F (125°C); ASTM D573; ISO 188; DIN 53508
Elongation at Break	440 %	440 %	ASTM D412; ISO 37; DIN 53504
	440 %	440 %	After 7 days at 257°F (125°C); ASTM D573; ISO 188; DIN 53508
100% Modulus	0.00386 GPa	0.560 ksi	ASTM D412; ISO 37; DIN 53504
	0.00514 GPa	0.745 ksi	After 7 days at 257°F (125°C); ASTM D573; ISO 188; DIN 53508
Graves Tear Strength	38.6 kN/m	220 pli	Die C; ASTM D624; DIN 53507
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Compression Set	15 %	15 %	After 22 Hr at 75°F (24°C); ASTM D395; ISO 815; DIN 53517
	56 %	56 %	22 hrs.; ASTM D395; ISO 815; DIN 53517
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Set	65 %	65 %	22 hrs.; ASTM D395; ISO 815; DIN 53517
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	9.0 %	9.0 %	ASTM D412

Thermal Properties	Metric	English	Comments
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Cash Berg Stiffness Temperature Thermal Properties	-27.0 °C Metric	-16.6 °F English	At 10,000 psi; ASTM D1043 Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	177 °C	350 °F	
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Descriptive Properties	Value	Comments
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Fluid Resistance - Volume Change, % (ASTM D471)	-24	After 7 Days in IRM 903 Oil No.3 at 212°F (100°C)
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	-33	After 7 Days in ASTM Oil No.1 at 212°F (100°C)
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	-9	After 7 Days in ASTM Ref. Fuel No. B at 75°F (24°C)
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