

Samyang Triel® 5300 Thermoplastic Polyether Ester Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyether Ester Elastomer

Material Notes:

TRIEL® resins offer superior mechanical properties, elasticities, heat and chemical resistance, which allow it to be widely used for electric/electronic equipments, automotive parts and outdoor recreation equipments. TRIEL® can be processed by a variety of thermoplastic processing techniques like injection molding, extrusion and extrusion blow molding. Grade Characteristics: Low modulus Applications: Specially suitable for injection molding of thin-walled parts & complicated molds which require high flow All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triel-5300-Thermoplastic-Polyether-Ester-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.012 - 0.013 cm/cm	0.012 - 0.013 in/in	ASTM D955
Melt Flow	22 - 24 g/10 min	22 - 24 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35	35	ASTM D2240
Tensile Strength, Yield	1.67 - 1.86 MPa	242 - 270 psi	ASTM D638
	@Strain 5.00 %	@Strain 5.00 %	
	3.53 - 3.73 MPa	512 - 540 psi	
	@Strain 10.0 %	@Strain 10.0 %	ASTM D638
	6.67 - 6.86 MPa	967 - 996 psi	ASTM D638
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 400 %	>= 400 %	ASTM D638
Flexural Yield Strength	2.94 MPa	427 psi	ASTM D638
Flexural Modulus	0.0392 GPa	5.69 ksi	ASTM D790
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	^{NB} Metric	^{NB} English	Comments
	@Temperature -23.0 °C	@Temperature -9.40 °F	
Taber Abrasion, mg/1000 Cycles	31	31	CS-17 Wheel; ASTM D1044

Thermal Properties	Metric	English	Comments
Melting Point	189 °C	372 °F	ASTM D2117
Deflection Temperature at 0.46 MPa (66 psi)	54.0 °C	129 °F	Rate B; ASTM D648
Vicat Softening Point	123 °C @Load 1.02 kg	253 °F @Load 2.25 lb	Rate B; ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	170 - 220 °C	338 - 428 °F	Injection or Extrusion
Middle Barrel Temperature	180 - 220 °C	356 - 428 °F	Injection
	190 - 230 °C	374 - 446 °F	Extrusion
Front Barrel Temperature	180 - 220 °C	356 - 428 °F	Injection
	190 - 220 °C	374 - 428 °F	Extrusion
Nozzle Temperature	180 - 220 °C	356 - 428 °F	Injection
Die Temperature	190 - 220 °C	374 - 428 °F	Extrusion
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	
Dry Time	3 - 4 hour	3 - 4 hour	
Moisture Content	<= 0.030 %	<= 0.030 %	
Injection Pressure	5.90 - 7.90 MPa	856 - 1150 psi	
Cycle Time - Injection	1.2 - 1.5 sec	1.2 - 1.5 sec	
Cycle Time - Cooling	10 - 20 sec	10 - 20 sec	

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