TRIEL® 5350

Thermoplastic Polyester Elastomer

Samyang Corporation

Message:

TRIEL® 5350 is a Thermoplastic Polyester Elastomer (TPEE) product. It is available in Asia Pacific, Europe, or North America.

General Information			
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.5 to 1.7	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	35		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Break	14.7	MPa	
5.0% Strain	4.41	MPa	
10% Strain	5.88	MPa	
50% Strain	8.34	MPa	
Tensile Elongation (Break)	> 400	%	ASTM D638
Flexural Modulus	44.1	MPa	ASTM D790
Flexural Strength (Yield)	2.94	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact			ASTM D256
-40°C	No Break		
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	55.0	°C	ASTM D648
Vicat Softening Temperature	123	°C	ASTM D1525 [1]
Melting Temperature	195	°C	ASTM D2117
NOTE			
1.	Rate B (120°C/h), Loading 1 (10 N)		

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