

Hytrel® 3046 NC010

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

30 Shore D High Performance Polyester Elastomer Developed for Injection Molding

General Information			
Additive	UV stabilizer		
Features	UV Stabilized		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Film extrusion		
	Sheet extrusion molding		
	Injection molding		
Part Marking Code (ISO 11469)	>TPC-ET		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
shrinkage-Flow	0.90	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shaw D	30		ISO 868
Shaw D, 15 seconds	25		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24.0	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Fracture	20.0	MPa	ISO 527-2
10% strain	1.90	MPa	ISO 527-2
50% strain	3.20	MPa	ISO 527-2
Tensile Strain (Break)	> 300	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	No Break		ISO 179/1eA
-30°C	No Break		ISO 179/1eA
23°C	No Break		ISO 179/1eA
Notched Izod Impact			ISO 180/1A

-30°C	No Break		ISO 180/1A
23°C	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	170	°C	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	41	mm/min	ISO 3795
FMVSS Flammability	B		FMVSS 302
Emission of Organic Compounds	1.50	µgC/g	VDA 277
Melt Temperature, Optimum	205	°C	
Mold Temperature, Optimum	30	°C	
Drying Recommended	yes		
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time - Desiccant Dryer	2.0 - 3.0	hr	
Suggested Max Moisture	0.080	%	
Processing (Melt) Temp	190 - 210	°C	
Mold Temperature	30 - 40	°C	
NOTE			
1.	10°C/min		
2.	FMVSS 302		

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