

Hytrel® 4056P

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

40 Shore D High Performance Polyester Elastomer in Powder Form

General Information			
Additive	UV Stabilizer		
Forms	Powder		
Processing Method	Thermoforming		
Resin ID (ISO 1043)	TPC-ET		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.6	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	43		
Shore D, 15 sec	37		
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Break	26.0	MPa	
5.0% Strain	2.40	MPa	
10% Strain	4.60	MPa	
50% Strain	8.40	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2
Nominal Tensile Strain at Break	500	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	54.0	MPa	
1000 hr	40.0	MPa	
Flexural Modulus	64.0	MPa	ISO 178
Abrasion Resistance	200	mm ³	ISO 4649
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	96	kN/m	
Flow	100	kN/m	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	No Break		
23°C	No Break		

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Tensile Impact Strength (23°C)	230	kJ/m ²	ISO 8256/1
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	-50.0	°C	ISO 11357-2
Melting Temperature ²	152	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
NOTE			
1.	10°C/min		
2.	10°C/min		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

