

Hytrel® DYM250S BK472

THERMOPLASTIC POLYESTER ELASTOMER

DuPont Performance Polymers

Message:

Medium Modulus Polyester Elastomer with Excellent Impact Resistance Developed for Air Bag Door Applications

General Information			
Additive	Heat Stabilizer		
	UV Stabilizer		
Features	Heat Stabilized		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)	>TPC-ET+PBT<		
Resin ID (ISO 1043)	TPC-ET+PBT		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	13	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	1.2	%	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D	49		
Shore D, 15 sec	44		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	295	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Break	30.0	MPa	
5.0% Strain	7.80	MPa	
10% Strain	9.70	MPa	
50% Strain	12.5	MPa	
100% Strain	14.0	MPa	
300% Strain	18.0	MPa	
Tensile Strain (Break)	> 300	%	ISO 527-2

Nominal Tensile Strain at Break	600	%	ISO 527-2
Flexural Modulus	350	MPa	ISO 178
Elastomers	Nominal Value	Unit	Test Method
Tear Strength			ISO 34-1
Across Flow	90	kN/m	
Flow	110	kN/m	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	48.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	41.0	°C	ISO 75-2/A
Brittleness Temperature	-100	°C	ISO 974
Melting Temperature ¹	222	°C	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	24	mm/min	ISO 3795
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	0.995	g/cm ³	
Additional Information	Nominal Value	Unit	Test Method
Emission of Organic Compounds	9.30	µgC/g	VDA 277
Odor	4		VDA 270
NOTE			
1.	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

