

Quadrant EPP CESTITECH 7000

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP CESTITECH 7000 is an Ultra High Molecular Weight Polyethylene product. It is available in Europe.

Characteristics include:

- Flame Rated
- High Molecular Weight
- Lubricated
- Wear Resistant

General Information			
Additive	Lubricant		
Features	Good Wear Resistance		
	Lubricated		
	Ultra High Molecular Weight		
Appearance	Dark Grey		
Forms	Disc		
	Preformed Parts		
	Rod		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C, 1.00 mm)	0.050	%	ISO 62
Molecular Weight	7000000	g/mol	
Service Temperature - Minimum	-150	°C	
Relative Weight Loss			Internal Method
-- 1	80.0		
-- 2	75.0		
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore D, 3 sec	63		
Shore D, 15 sec	61		
Ball Indentation Hardness	37.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	785	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/1B/50
Tensile Strain (Yield)	15	%	ISO 527-2/1B/50
Nominal Tensile Strain at Break	> 50	%	ISO 527-2/1B/50

Compressive Stress			ISO 604/1
5% Strain	15.0	MPa	
2% Strain	9.00	MPa	
1% Strain	5.00	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-- ³	> 50	kJ/m ²	Internal Method
Partial Break	70	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	42.0	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁴	80.0	°C	
-- ⁵	120	°C	
Vicat Softening Temperature	83.0	°C	ISO 306/B
Melting Temperature	130 to 135	°C	ISO 11357-3
CLTE - Flow (23 to 100°C)	2.0E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.40	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
Oxygen Index	< 20	%	ISO 4589-2
NOTE			
1.	Wear test in sand/water slurry		
2.	Wear test on plastics pin on rotating steel disk-tribo system		
3.	Double 15° notch, DIS 11542-2		
4.	20000 hrs		
5.	Short periods		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT