

Quadrant EPP CESTIFLAME PE-UHMW

Ultra High Molecular Weight Polyethylene

Quadrant Engineering Plastic Products

Message:

Quadrant EPP CESTIFLAME PE-UHMW is an Ultra High Molecular Weight Polyethylene product. It is available in Europe. Typical application: Industrial Applications.
Characteristics include:
Flame Rated
Flame Retardant
Wear Resistant
Antistatic
Chemical Resistant

General Information			
Additive	Antistatic		
	Flame Retardant		
Features	Antistatic		
	Flame Retardant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good UV Resistance		
	Good Wear Resistance		
	Halogen Free		
	High Impact Resistance		
	Low Friction		
	Ultra High Molecular Weight		
Uses	Industrial Applications		
Forms	Disc		
	Preformed Parts		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Density	1.01	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C, 1.00 mm)	0.40	%	ISO 62
Molecular Weight	4500000	g/mol	
Service Temperature - Minimum	-100	°C	
Relative Weight Loss			Internal Method
-- 1	145		
-- 2	90.0		
Hardness	Nominal Value	Unit	Test Method

Shore Hardness			ISO 868
Shore D, 3 sec	63		
Shore D, 15 sec	61		
Ball Indentation Hardness	40.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1000	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	18.0	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	16.0	MPa	
2% Strain	10.5	MPa	
1% Strain	6.50	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (Partial Break)	65	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature			
-- ³	80.0	°C	
-- ⁴	120	°C	
Melting Temperature	130 to 135	°C	ISO 11357-3
CLTE - Flow (23 to 100°C)	1.8E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+8	ohms	IEC 60093
Volume Resistivity	< 1.0E+8	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (10.0 mm)	V-0		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.	20000 hrs		
4.	Short periods		

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