

XANTAR® LDS 3735

Polycarbonate
Mitsubishi Engineering-Plastics Corp

Message:
Laser Direst Structuring (LDS), Impact Modified

General Information			
Additive	Impact modifier		
Features	Impact modification		
Uses	Laser Direct Structuring		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	13	g/10 min	ISO 1133
shrinkage-Flow	0.60	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	50.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	%	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	35	kJ/m ²	ISO 179/1eA
23°C	45	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/4A
-20°C	40	kJ/m ²	ISO 180/4A
23°C	50	kJ/m ²	ISO 180/4A
Multi-Axial Instrumented Impact Energy (23°C)	40.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	121	°C	ISO 75-2/A
Vicat Softening Temperature	141	°C	ISO 306/B50
Linear thermal expansion coefficient			ISO 11359-2

Flow	6.0E-5	cm/cm/°C	ISO 11359-2
Lateral	6.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1.00 GHz)	2.88		IEC 60250
Dissipation Factor (1.00 GHz)	6.0E-3		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (0.75 mm)	HB		IEC 60695-11-10, -20

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