ExxonMobil

Exxtral™ Performance Polyolefin CNK010

Polypropylene, Compounded (TPO)

Product Description

A speciality thermoplastic polyolefin resin designed for injection or extrusion automotive applications with low melt and excellent low temperature impact.

General

Features	▪ Good Impact Resistance	▪ Low Flow
Uses	▪ Automotive Applications	
Appearance	▪ Natural Color	
Form(s)	▪ Pellets	
Processing Method	▪ Extrusion	

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.50	cm^3/10min	1.50	cm^3/10min	ISO 1133
Density	0.900	g/cm^3	0.900	g/cm^3	ISO 1183

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at Yield	3630	psi	25.0	MPa	ISO 527-2
Tensile Strain at Yield	10	%	10	%	ISO 527-2
Tensile Modulus	167000	psi	1150	MPa	ISO 527-2
Flexural Modulus	160000	psi	1100	MPa	ISO 178
Flexural Stress	4500	psi	31.0	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact Strength					ISO 180
73°F (23°C), Partial Break	13	$ft·lb/in^2$	27	kJ/m^2	
Charpy Notched Impact Strength					ISO 179
-4°F (-20°C), Complete Break	1.4	$ft·lb/in^2$	3.0	kJ/m^2	
32°F (0°C), Complete Break	1.9	$ft·lb/in^2$	4.0	kJ/m^2	
73°F (23°C), Partial Break	12	$ft·lb/in^2$	25	kJ/m^2	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	118	°F	48.0	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	169	°F	76.0	°C	ISO 75-2/B