Borealis PP KSR4525

Polypropylene

Borealis AG

Message:

KSR4525 is a reactor elastomer modified polypropylene intended for injection moulding. The product is available in natural colour.
This material has excellent balanced mechanical properties and gives a good surface quality.

General Information			
Additive	UV Stabilizer		
Features	Good UV Resistance Recyclable Material		
Uses	Automotive Bumper Automotive Exterior Trim		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	38.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (1.00 mm)	940	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	6.0	%	ISO 527-2/50
Flexural Modulus [1]	970	MPa	ISO 178
Flexural Stress	22.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m²	
-20°C	7.0	kJ/m²	
23°C	50	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-20°C	6.0	kJ/m²	
23°C	45	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	137	°C	ISO 306/A
--	47.0	°C	ISO 306/B
CLTE - Flow (-30 to 80°C)	1.0E-4	cm/cm/°C	ISO 11359-2

NOTE	
1.	2.0 mm/min

Recommended distributors for this material

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